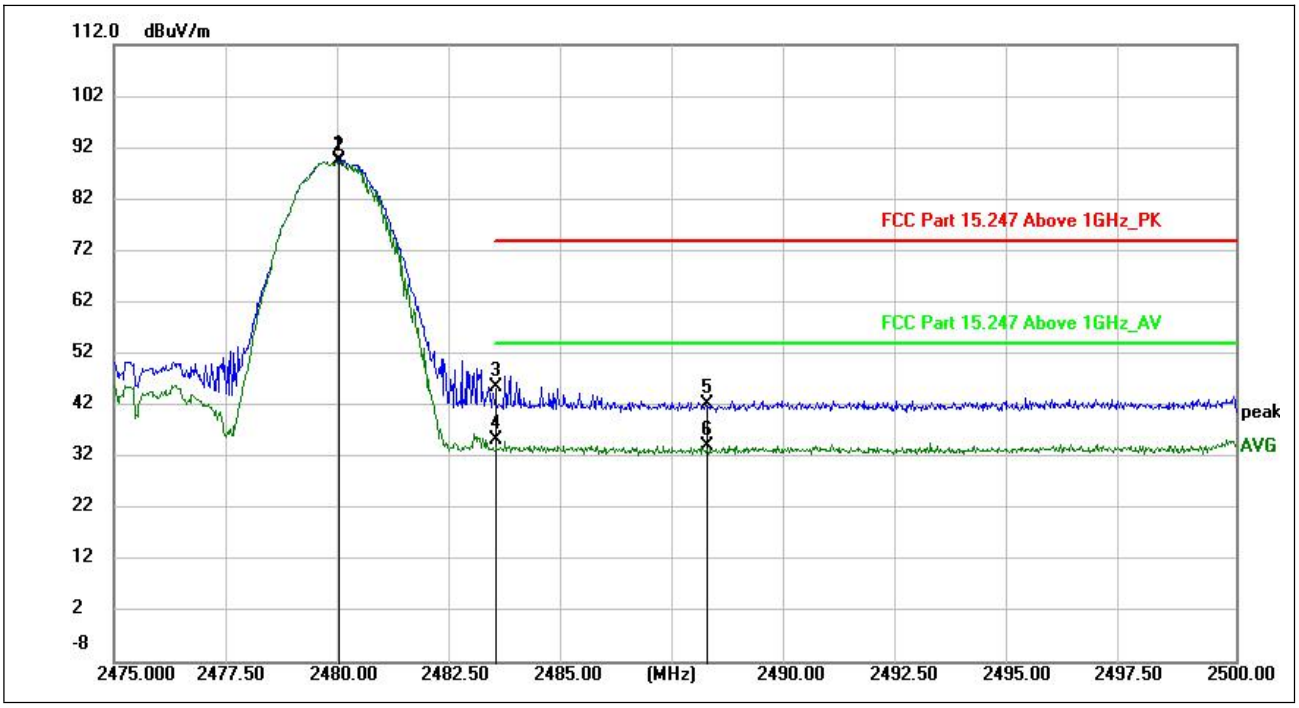
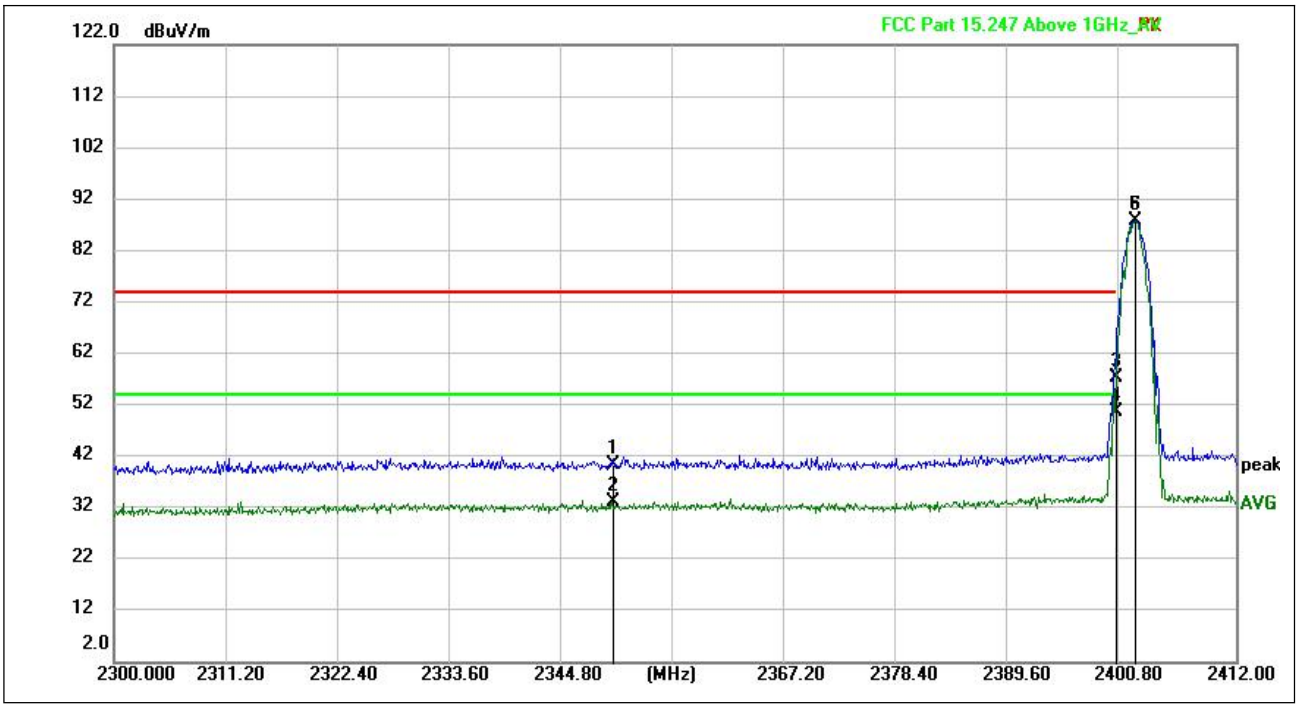



(GFSK _2480MHz, Antenna Vertical)

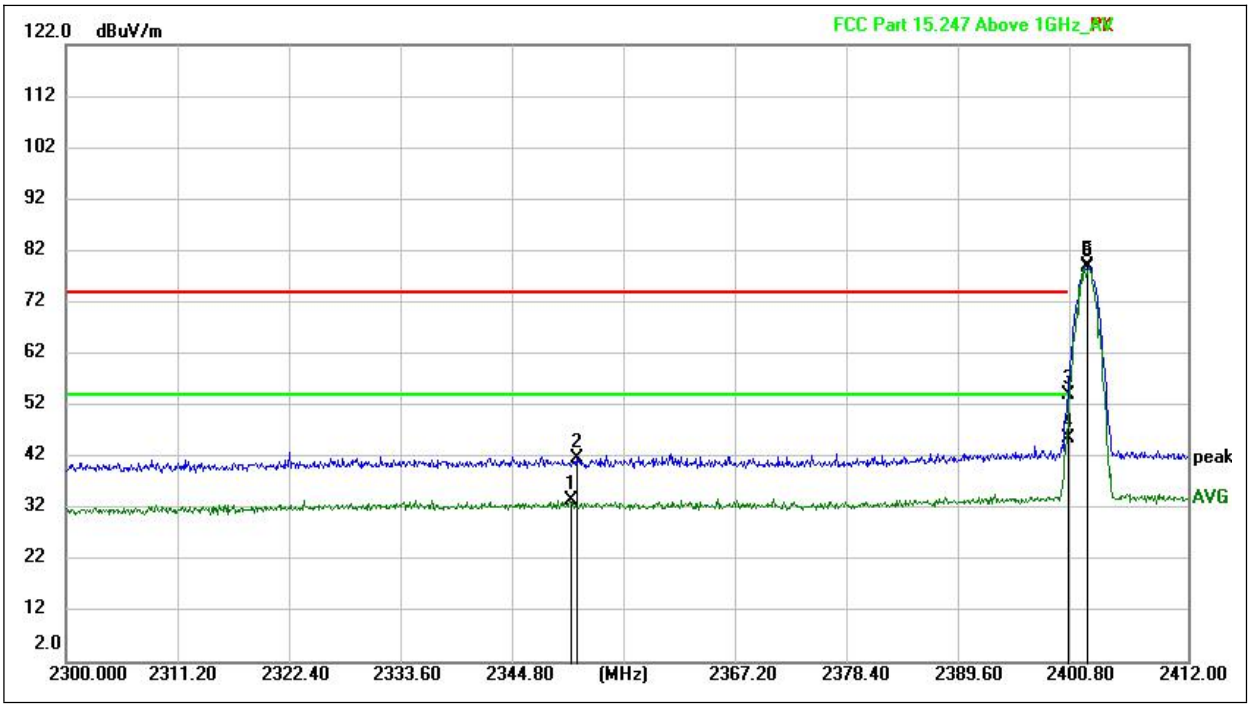
| Frequency (MHz) | QuasiPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2480.021 | 89.47 | --- | --- | --- | V | 8.26 | PASS |
| 2480.021 | --- | 89.32 | --- | --- | V | 8.26 | PASS |
| 2483.500 | 45.41 | --- | 74.00 | 28.59 | V | 8.36 | PASS |
| 2483.500 | --- | 35.30 | 54.00 | 18.70 | V | 8.36 | PASS |
| 2488.214 | 42.30 | --- | 74.00 | 31.70 | V | 8.36 | PASS |
| 2488.214 | --- | 33.96 | 54.00 | 20.04 | V | 8.36 | PASS |

**π/4-DQPSK Test mode**



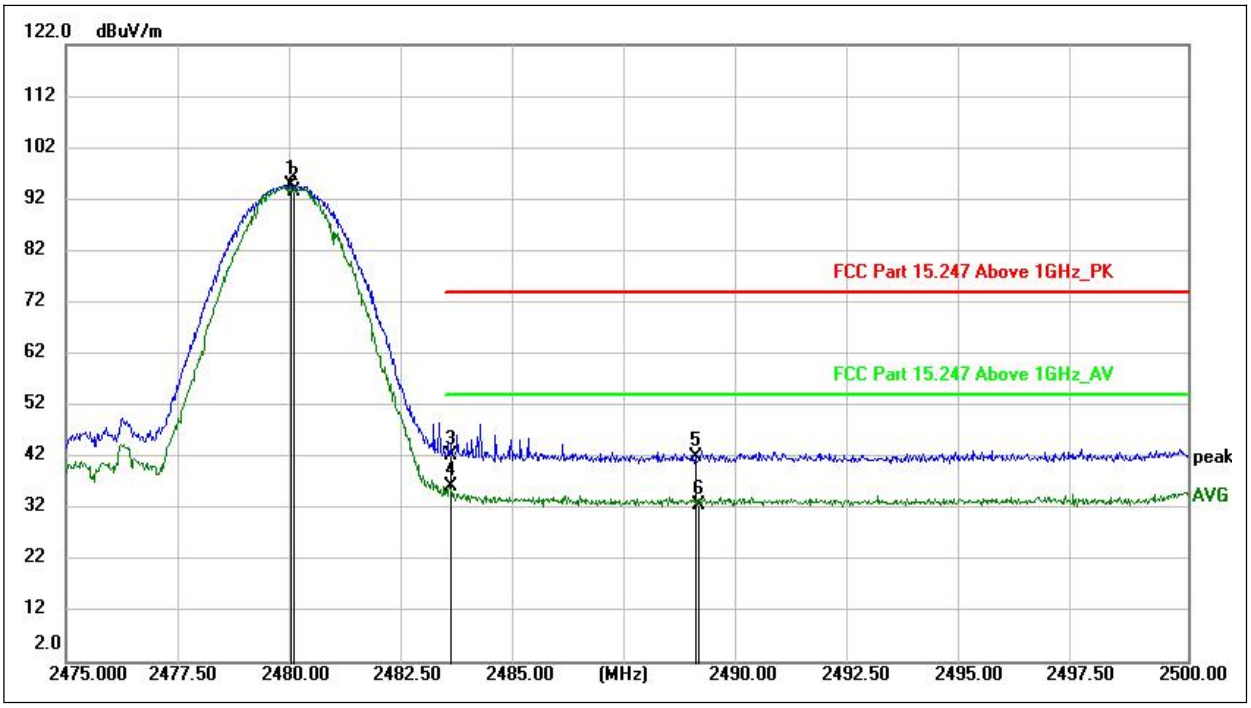

(π/4-DQPSK _2402MHz, Antenna Horizontal)

| Frequency (MHz) | QuasiPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2349.806 | 40.58 | --- | 74.00 | 33.42 | H | 30.03 | PASS |
| 2349.806 | --- | 33.15 | 54.00 | 20.85 | H | 30.03 | PASS |
| 2400.000 | 57.23 | --- | 74.00 | 16.77 | H | 31.70 | PASS |
| 2400.000 | --- | 50.83 | 54.00 | 3.17 | H | 31.70 | PASS |
| 2402.000 | 87.84 | --- | --- | --- | H | 31.59 | PASS |
| 2402.000 | --- | 87.73 | --- | --- | H | 31.59 | PASS |



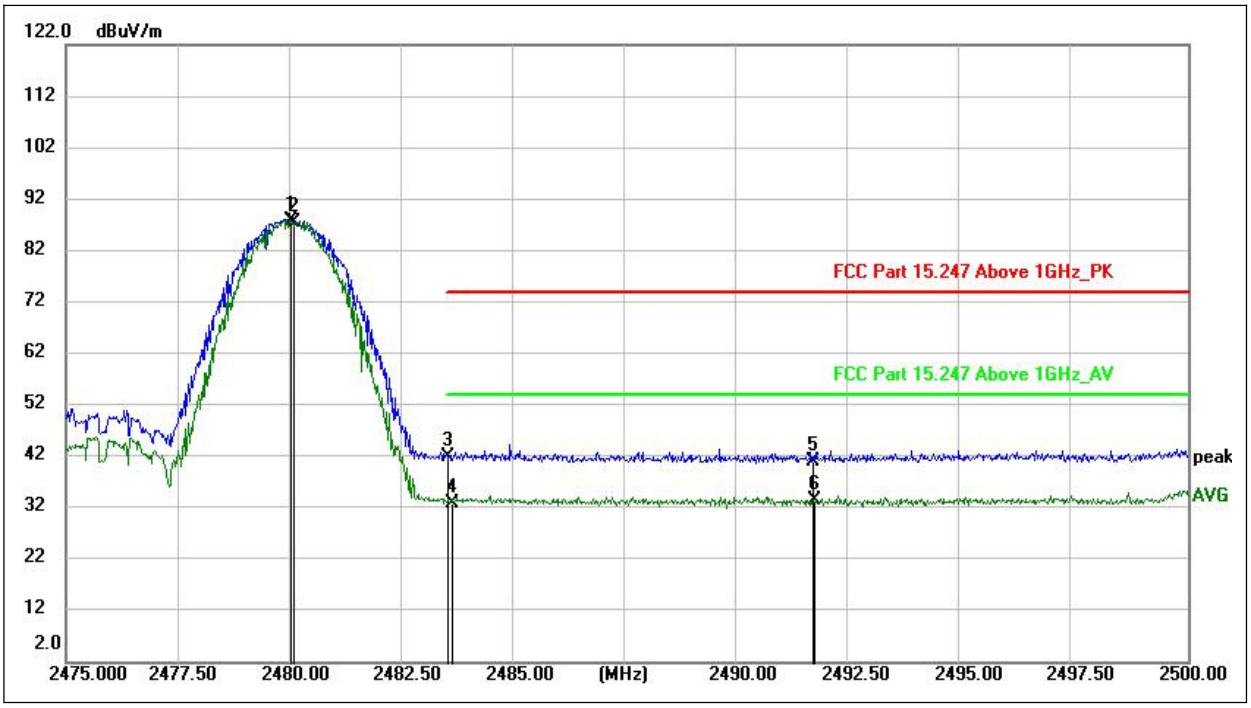

(π/4-DQPSK _2402MHz, Antenna Vertical)

| Frequency (MHz) | QuasiPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2350.394 | --- | 33.54 | 54.00 | 20.46 | V | 7.72 | PASS |
| 2351.072 | 41.69 | --- | 74.00 | 32.31 | V | 7.71 | PASS |
| 2400.000 | 54.11 | --- | 74.00 | 19.89 | V | 8.70 | PASS |
| 2400.000 | --- | 45.60 | 54.00 | 8.40 | V | 8.70 | PASS |
| 2402.000 | 78.98 | --- | --- | --- | V | 8.68 | PASS |
| 2402.000 | --- | 78.69 | --- | --- | V | 8.68 | PASS |




(π/4-DQPSK _2480MHz, Antenna Horizontal)

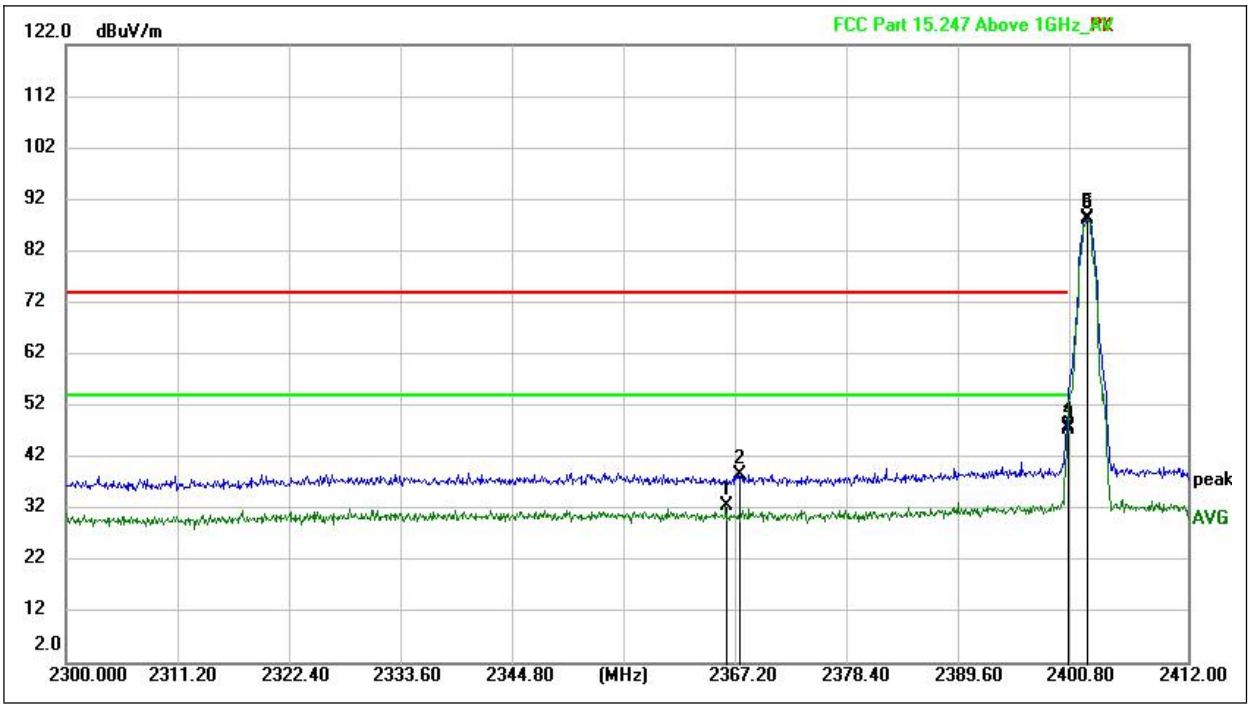
| Frequency (MHz) | QuasiPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2479.976 | 94.65 | --- | --- | --- | H | 8.26 | PASS |
| 2480.073 | --- | 93.48 | --- | --- | H | 8.27 | PASS |
| 2483.568 | 42.39 | --- | 74.00 | 31.61 | H | 8.36 | PASS |
| 2483.568 | --- | 36.34 | 54.00 | 17.66 | H | 8.36 | PASS |
| 2489.050 | 41.82 | --- | 74.00 | 32.18 | H | 8.35 | PASS |
| 2489.095 | --- | 32.67 | 54.00 | 21.33 | H | 8.35 | PASS |




(π/4-DQPSK _2480MHz, Antenna Vertical)

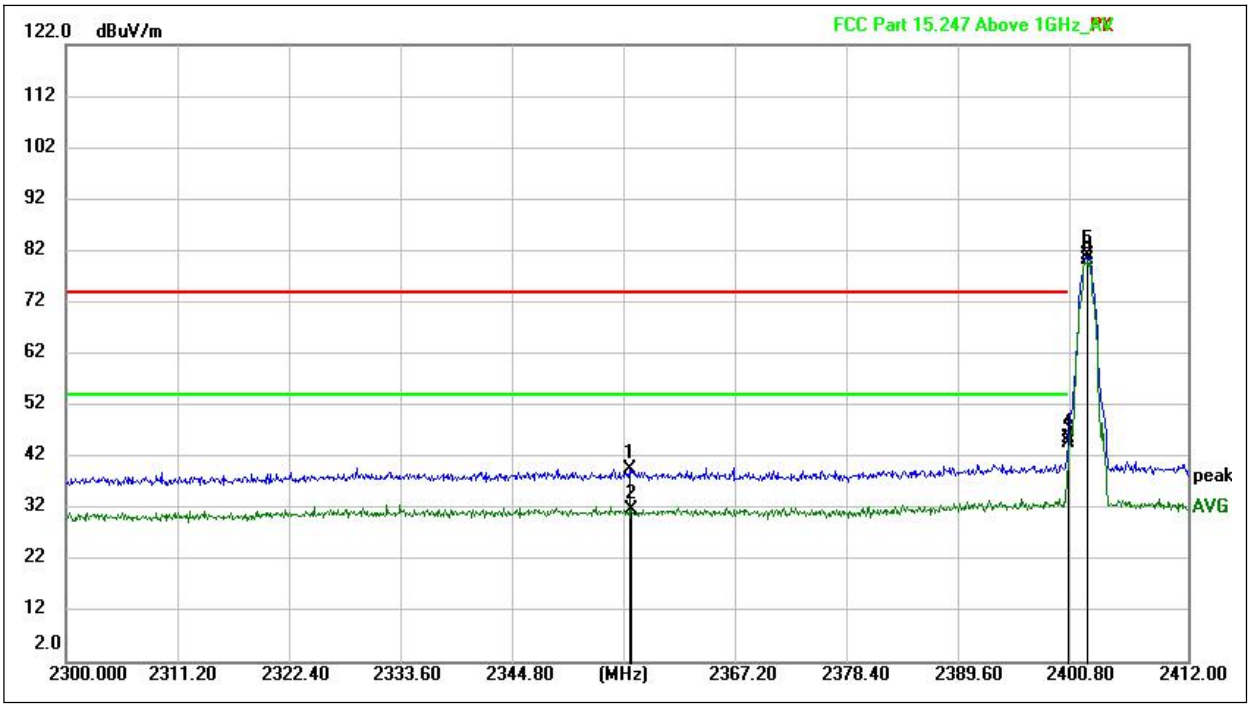
| Frequency (MHz) | QuasiPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2480.000 | 87.90 | --- | --- | --- | V | 8.26 | PASS |
| 2480.056 | --- | 87.51 | --- | --- | V | 8.26 | PASS |
| 2483.523 | 42.05 | --- | 74.00 | 31.95 | V | 8.36 | PASS |
| 2483.579 | --- | 33.00 | 54.00 | 21.00 | V | 8.37 | PASS |
| 2491.634 | 41.11 | --- | 74.00 | 32.89 | V | 8.34 | PASS |
| 2491.668 | --- | 33.41 | 54.00 | 20.59 | V | 8.34 | PASS |

**8-DQPSK Test mode**



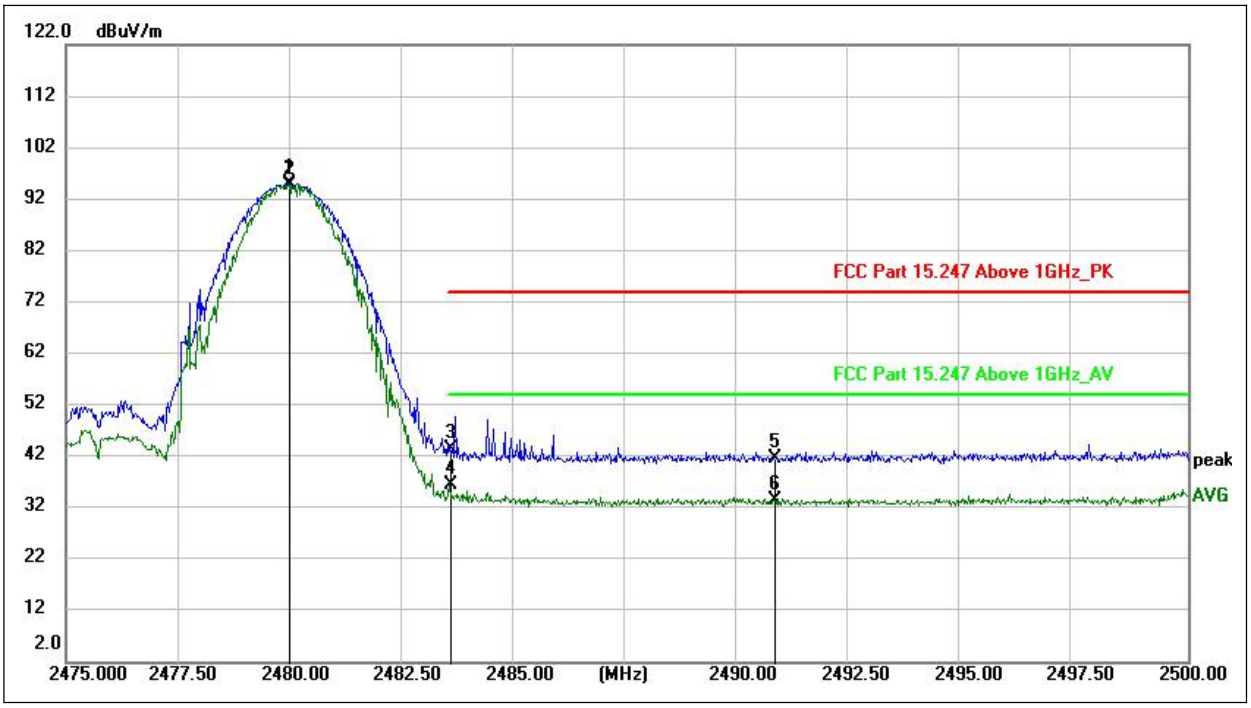

(8-DQPSK _2402MHz, Antenna Horizontal)

| Frequency (MHz) | QuasiPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2365.862 | --- | 32.65 | 54.00 | 21.35 | H | 7.43 | PASS |
| 2367.150 | 38.73 | --- | 74.00 | 35.27 | H | 7.40 | PASS |
| 2400.000 | 47.45 | --- | 74.00 | 26.55 | H | 8.70 | PASS |
| 2400.000 | --- | 47.98 | 54.00 | 6.02 | H | 8.70 | PASS |
| 2402.000 | 88.27 | --- | --- | --- | H | 8.68 | PASS |
| 2402.000 | --- | 88.18 | --- | --- | H | 8.68 | PASS |



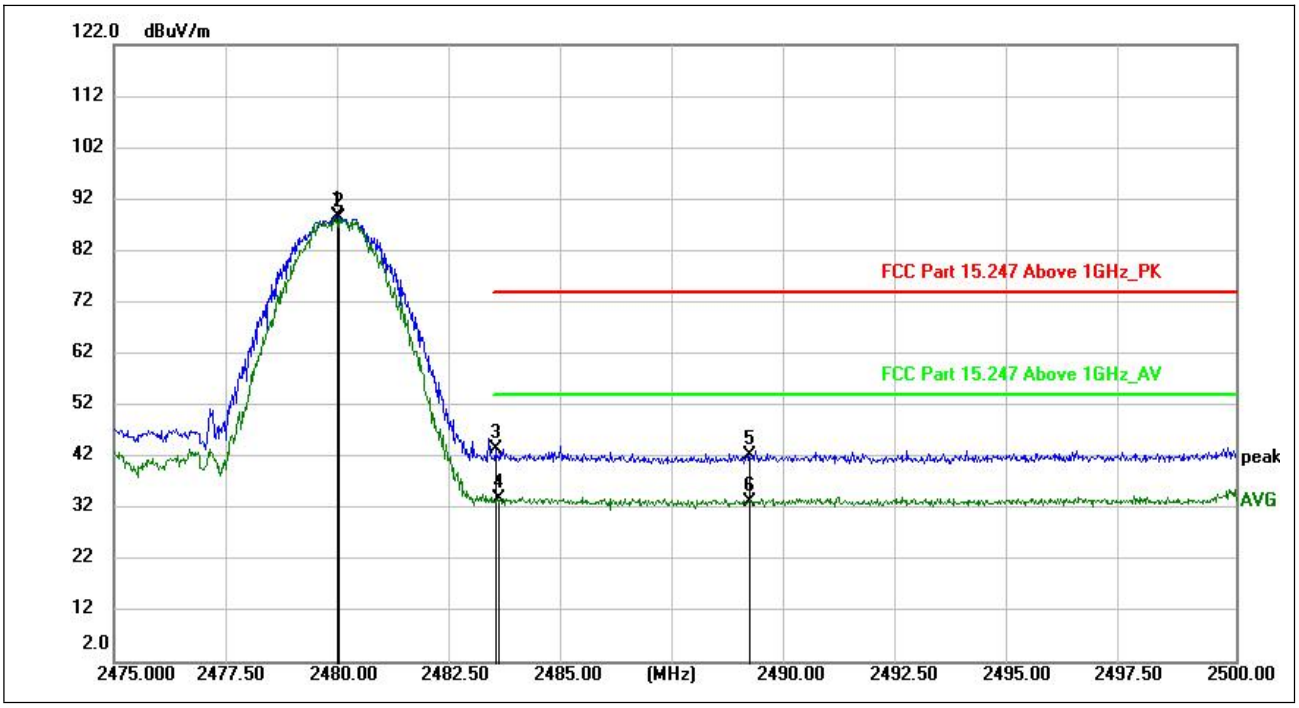

(8-DQPSK _2402MHz, Antenna Vertical)

| Frequency (MHz) | QuasiPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2356.330 | 39.62 | --- | 74.00 | 34.38 | V | 7.61 | PASS |
| 2356.426 | --- | 31.80 | 54.00 | 22.20 | V | 7.60 | PASS |
| 2400.000 | 44.62 | --- | 74.00 | 29.38 | V | 8.70 | PASS |
| 2400.000 | --- | 45.68 | 54.00 | 8.32 | V | 8.70 | PASS |
| 2402.000 | 81.08 | --- | --- | --- | V | 8.68 | PASS |
| 2402.000 | --- | 80.39 | --- | --- | V | 8.68 | PASS |




(8-DQPSK _2480MHz, Antenna Horizontal)

| Frequency (MHz) | QuasiPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2479.972 | 94.93 | --- | --- | --- | H | 8.26 | PASS |
| 2479.972 | --- | 94.75 | --- | --- | H | 8.26 | PASS |
| 2483.565 | 43.53 | --- | 74.00 | 30.47 | H | 8.36 | PASS |
| 2483.565 | --- | 36.42 | 54.00 | 17.58 | H | 8.36 | PASS |
| 2490.787 | 41.67 | --- | 74.00 | 32.33 | H | 8.35 | PASS |
| 2490.787 | --- | 33.65 | 54.00 | 20.35 | H | 8.35 | PASS |




(8-DQPSK _2480MHz, Antenna Vertical)

| Frequency (MHz) | QuasiPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 2479.957 | 88.57 | --- | --- | --- | V | 8.26 | PASS |
| 2480.003 | --- | 88.28 | --- | --- | V | 8.26 | PASS |
| 2483.519 | 43.47 | --- | 74.00 | 30.53 | V | 8.36 | PASS |
| 2483.573 | --- | 33.82 | 54.00 | 20.18 | V | 8.37 | PASS |
| 2489.168 | 42.16 | --- | 74.00 | 31.84 | V | 8.35 | PASS |
| 2489.168 | --- | 33.17 | 54.00 | 20.83 | V | 8.35 | PASS |

# 2.9. Conducted Emission

### 2.9.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

| Frequency range (MHz) | Conducted Limit (dBμV) | |
|---|---|---|
| | Quai-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5- 30 | 60 | 50 |

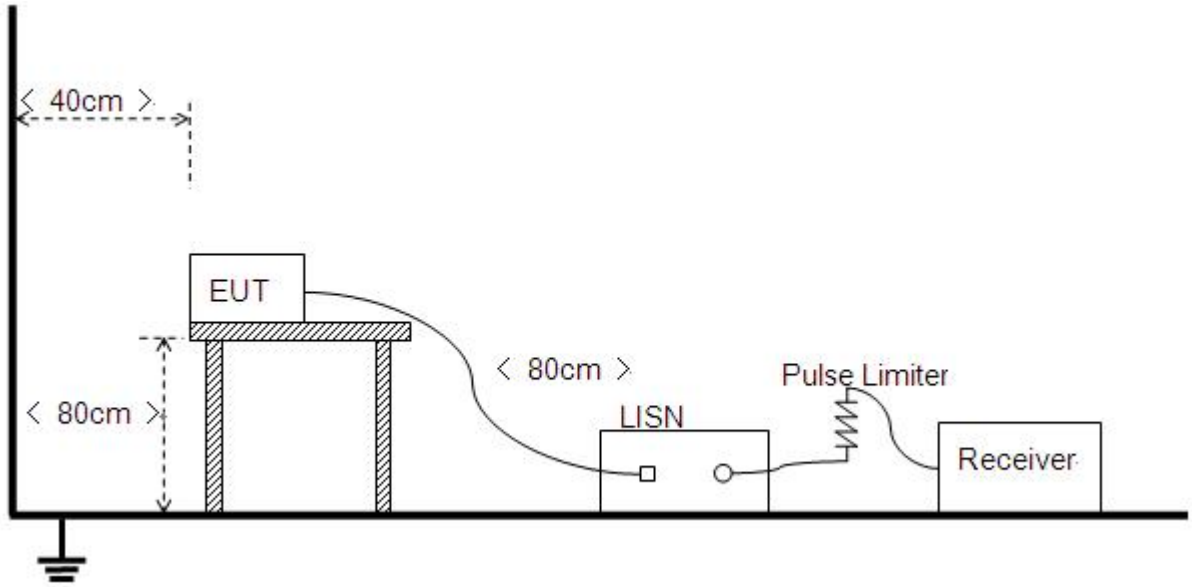
**NOTE:**

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

### 2.9.2. Test Description

**A. Test Setup:**




The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

The factors of the site are calibrated to correct the reading. During the measurement, the Bluetooth EUT is activated and controlled by the Bluetooth Service Supplier (SS) via a Common Antenna, and is set to operate under hopping-on test mode transmitting 339 bytes DH5 packages at maximum power.

**B. Equipments List:**

Please refer ANNEX B(4).

### 2.9.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

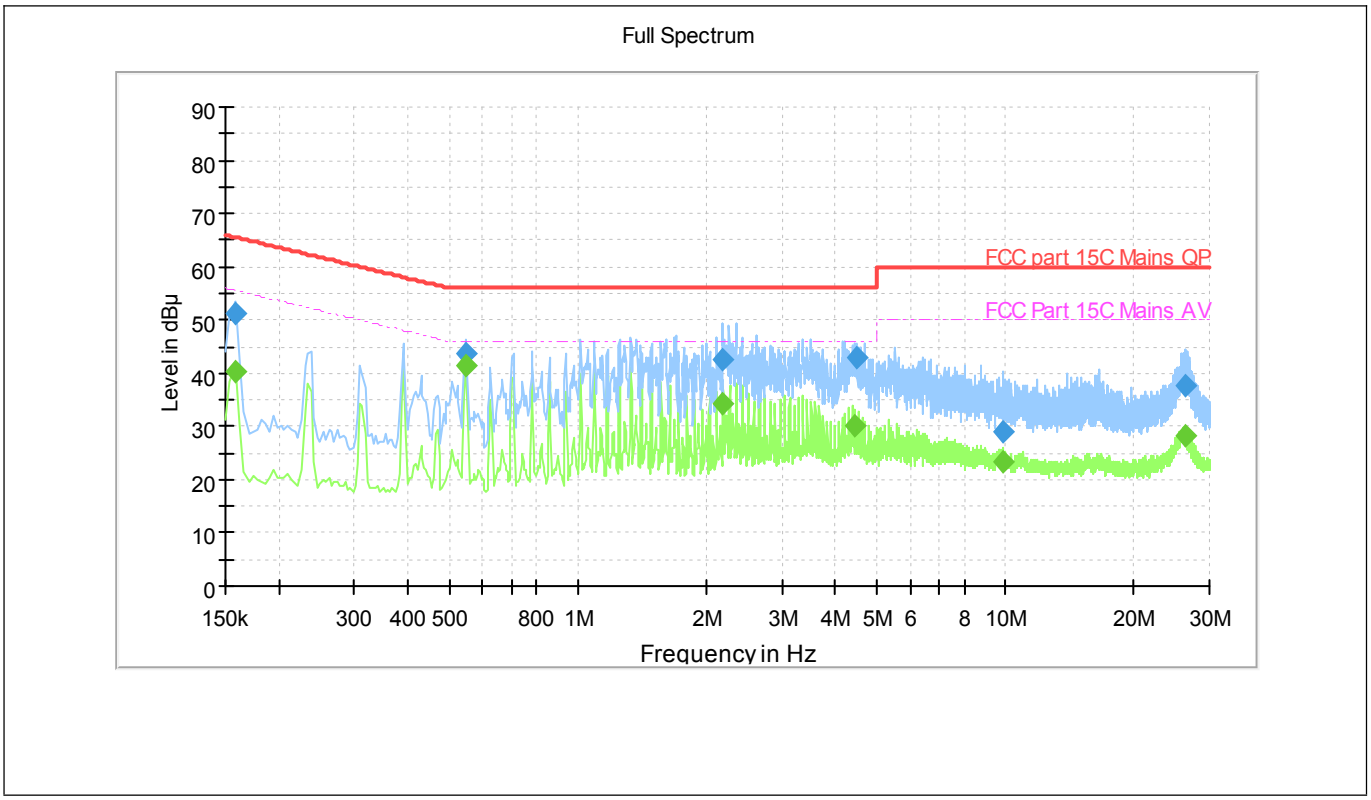
**Note:** Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

**A. Test setup:**

The EUT configuration of the emission tests is Charging + BT Link.

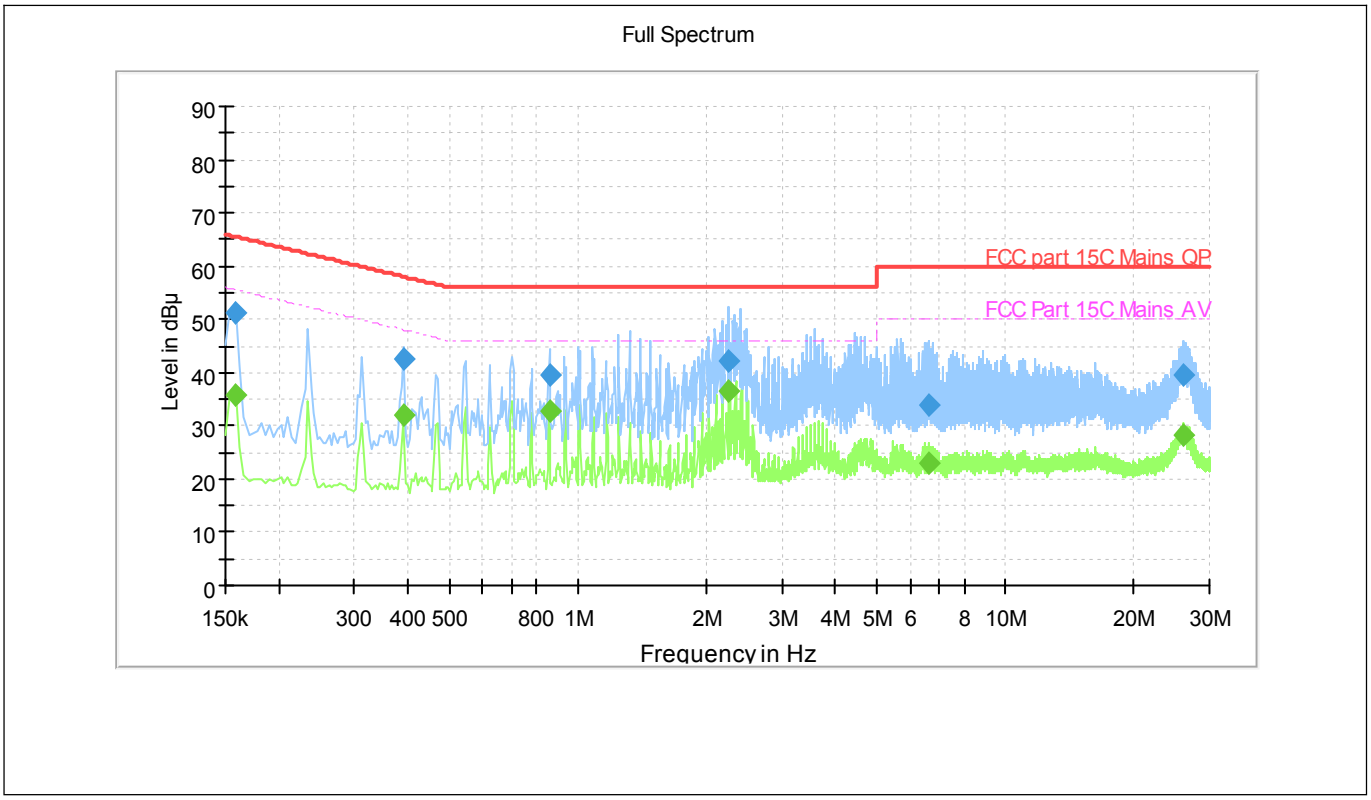
**Note:** The test voltage is AC 120V/60Hz.

**B. Test Plots:**




(Plot A: L Phase)

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) | Verdict |
|---|---|---|---|---|---|---|---|
| 0.158000 | 51.31 | --- | 65.57 | 14.26 | L | 10.2 | PASS |
| 0.158000 | --- | 40.28 | 55.57 | 15.28 | L | 10.2 | PASS |
| 0.546000 | 43.81 | --- | 56.00 | 12.19 | L | 10.2 | PASS |
| 0.546000 | --- | 41.45 | 46.00 | 4.55 | L | 10.2 | PASS |
| 2.186000 | 42.49 | --- | 56.00 | 13.51 | L | 10.3 | PASS |
| 2.190000 | --- | 34.30 | 46.00 | 11.70 | L | 10.3 | PASS |
| 4.462000 | --- | 30.30 | 46.00 | 15.70 | L | 10.4 | PASS |
| 4.470000 | 42.81 | --- | 56.00 | 13.19 | L | 10.4 | PASS |
| 9.910000 | 28.94 | --- | 60.00 | 31.06 | L | 10.7 | PASS |
| 9.914000 | --- | 23.27 | 50.00 | 26.73 | L | 10.7 | PASS |
| 26.278000 | 37.48 | --- | 60.00 | 22.52 | L | 10.6 | PASS |
| 26.326000 | --- | 28.09 | 50.00 | 21.91 | L | 10.6 | PASS |




(Plot A: N Phase)

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) | Verdict |
|---|---|---|---|---|---|---|---|
| 0.158000 | --- | 35.71 | 55.57 | 19.86 | N | 10.2 | PASS |
| 0.158000 | 51.20 | --- | 65.57 | 14.37 | N | 10.2 | PASS |
| 0.390000 | --- | 32.04 | 48.06 | 16.03 | N | 10.2 | PASS |
| 0.390000 | 42.73 | --- | 58.06 | 15.33 | N | 10.2 | PASS |
| 0.858000 | --- | 32.80 | 46.00 | 13.20 | N | 10.3 | PASS |
| 0.858000 | 39.46 | --- | 56.00 | 16.54 | N | 10.3 | PASS |
| 2.254000 | 42.15 | --- | 56.00 | 13.85 | N | 10.3 | PASS |
| 2.262000 | --- | 36.39 | 46.00 | 9.61 | N | 10.3 | PASS |
| 6.614000 | 33.78 | --- | 60.00 | 26.22 | N | 10.5 | PASS |
| 6.614000 | --- | 22.97 | 50.00 | 27.03 | N | 10.5 | PASS |
| 26.022000 | --- | 28.26 | 50.00 | 21.74 | N | 10.5 | PASS |
| 26.190000 | 39.67 | --- | 60.00 | 20.33 | N | 10.5 | PASS |

# 2.10. Radiated Emission

## 2.10.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) |
|---|---|---|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

**Note:**

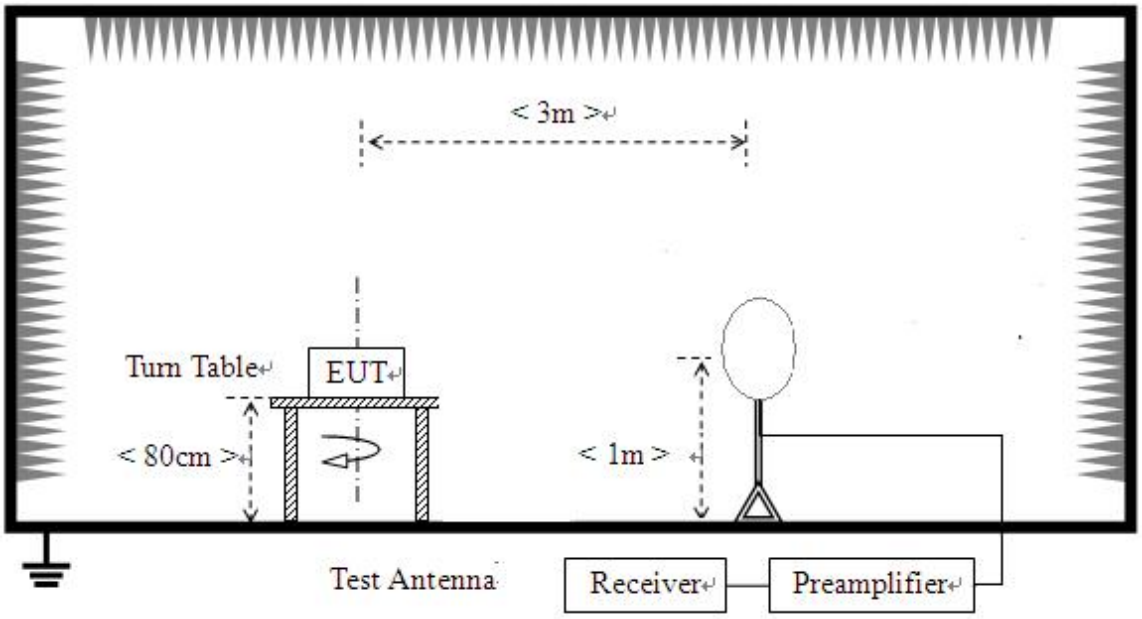
1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

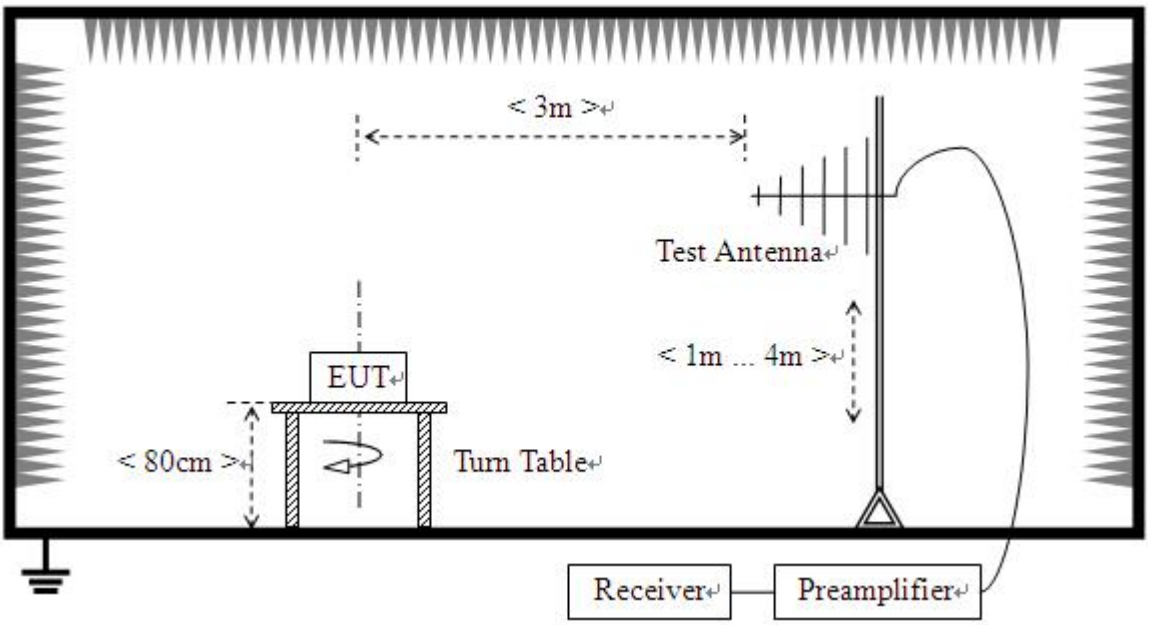
### 2.10.2. Test Description

**A. Test Setup:**

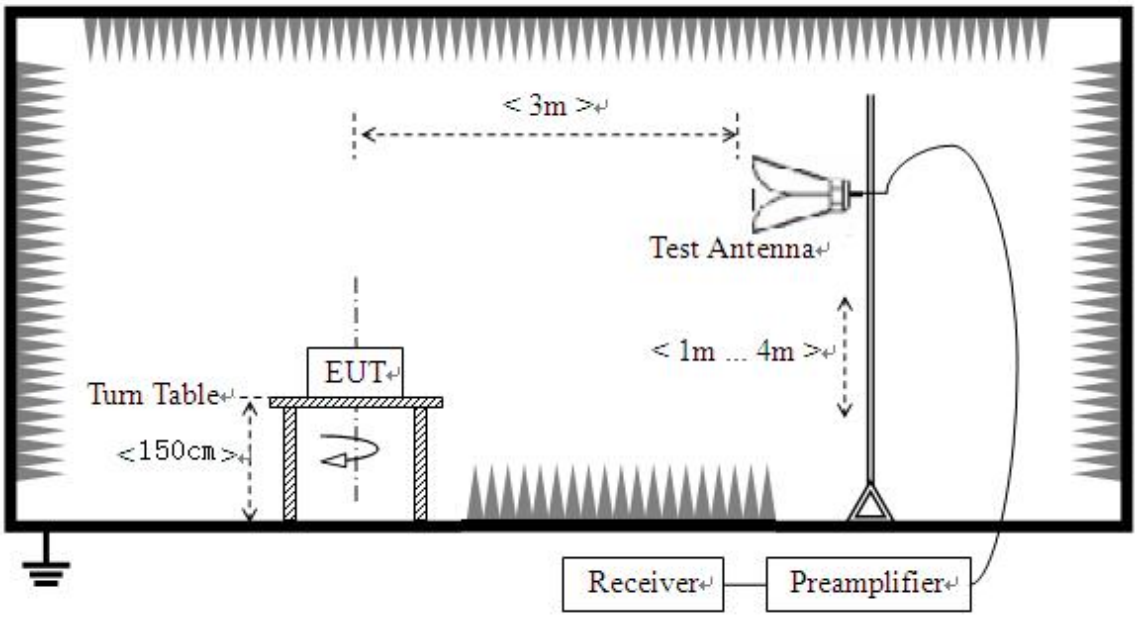
1) For radiated emissions from 9kHz to 30MHz




2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz




The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, the EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For Radiated emission below 30MHz
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
NOTE:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz
a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.
Note:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

**B. Equipments List:**

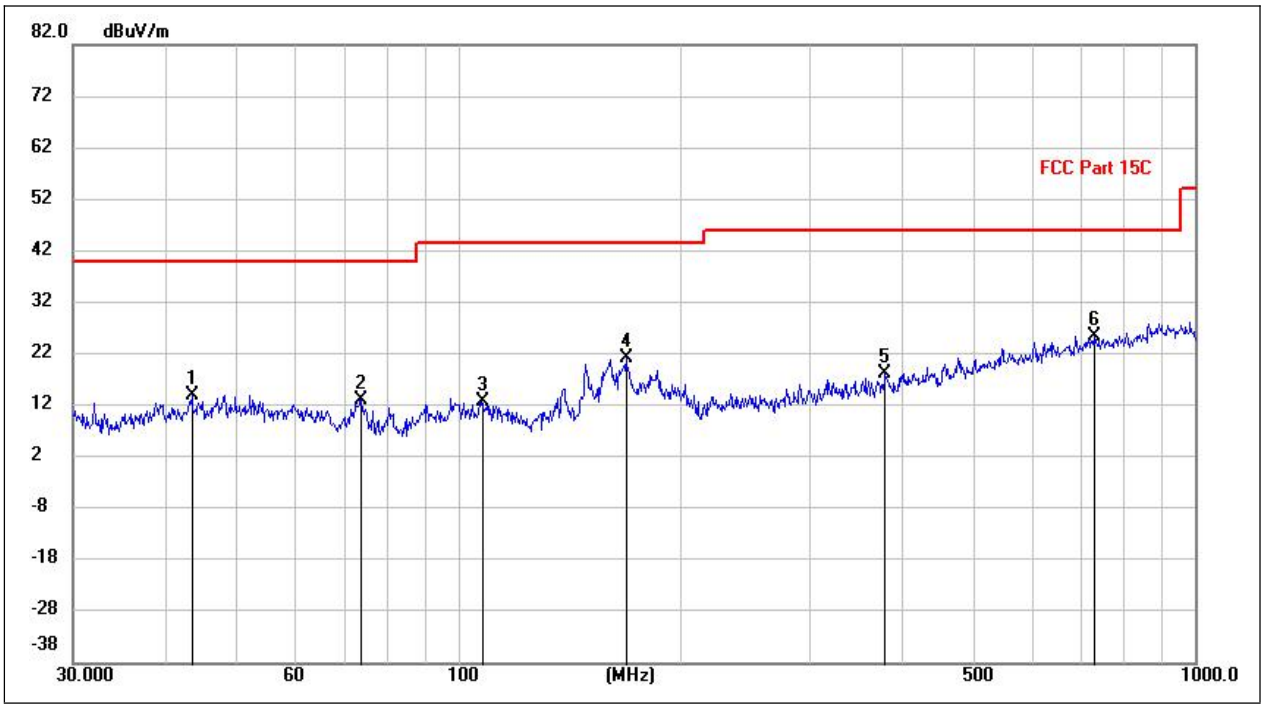
Please refere ANNEX B(4).

### 2.10.3. Test Result

**Note1:** For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

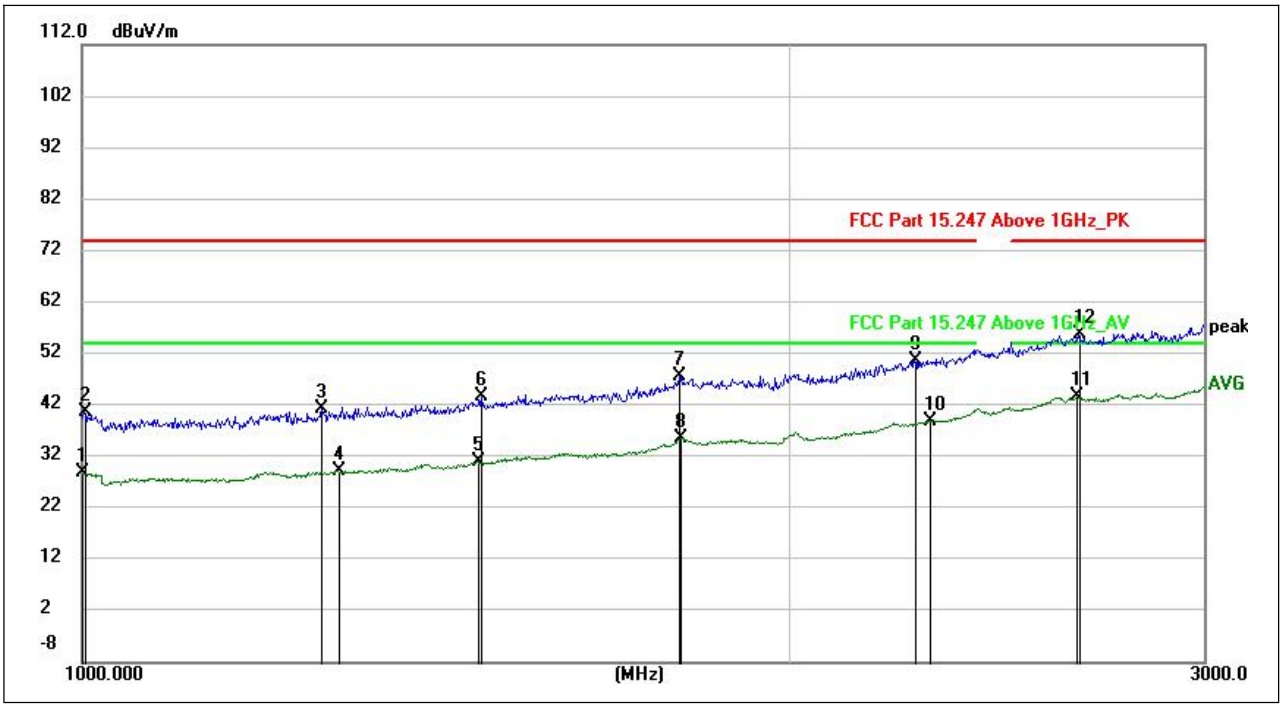
**Note2:** For the frequency, which started from 25GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

**GFSK Test mode**



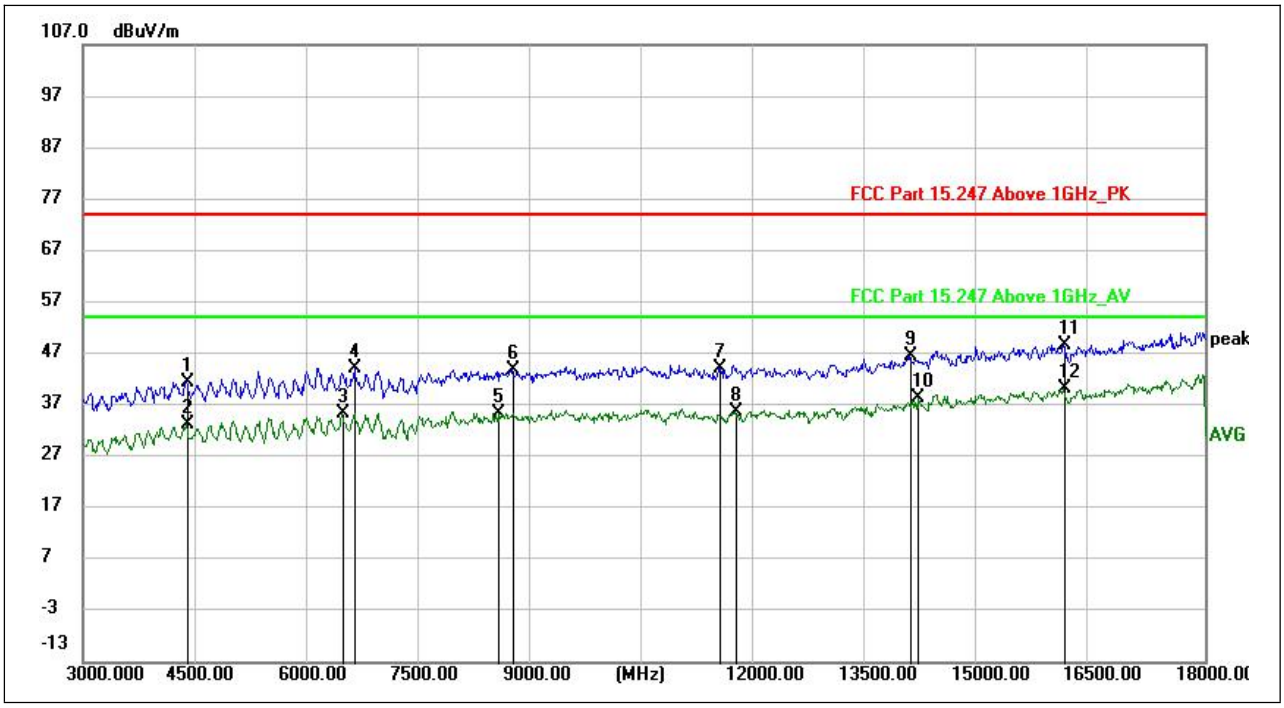

(GFSK _2402MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 43.5668 | 13.92 | 40.00 | 26.08 | H | 15.26 | PASS |
| 73.7591 | 13.17 | 40.00 | 26.83 | H | 10.09 | PASS |
| 107.8121 | 12.87 | 43.50 | 30.63 | H | 14.56 | PASS |
| 169.2129 | 21.16 | 43.50 | 22.34 | H | 12.28 | PASS |
| 379.9141 | 18.38 | 46.00 | 27.62 | H | 19.19 | PASS |
| 731.9203 | 25.39 | 46.00 | 20.61 | H | 25.53 | PASS |



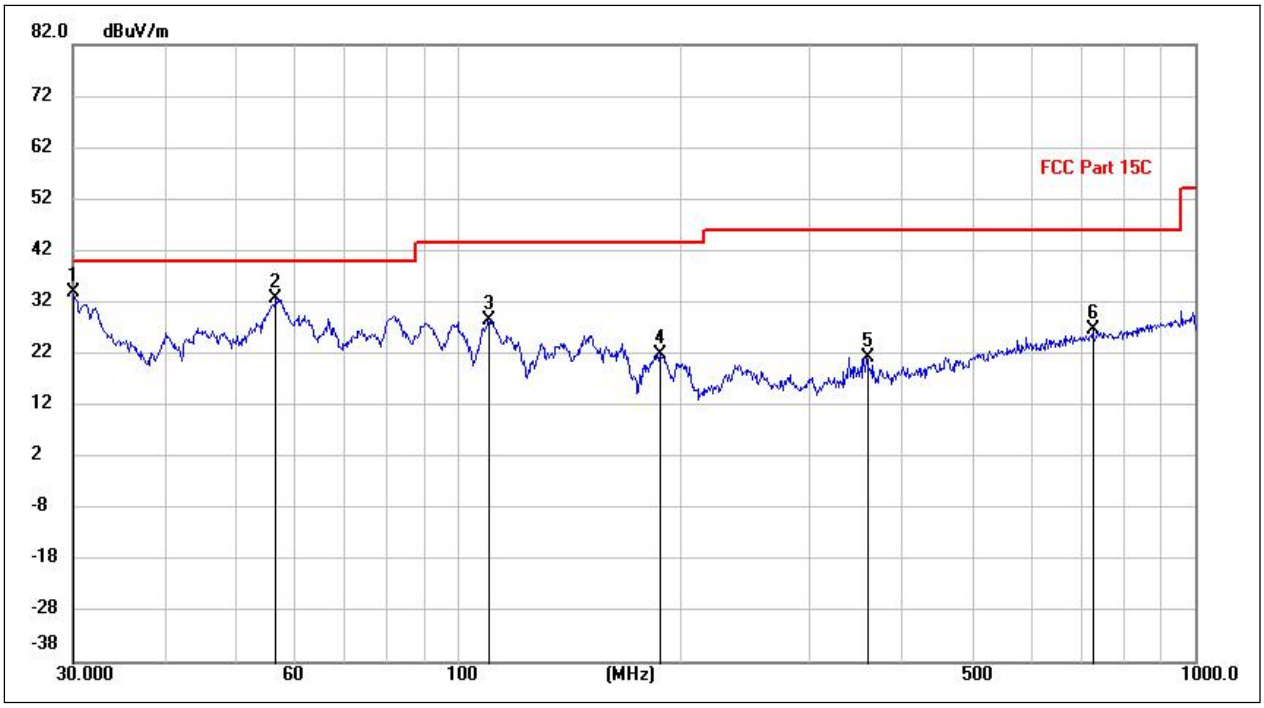

(GFSK _2402MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1000.0000 | --- | 29.03 | 54.00 | 24.97 | H | 28.63 | PASS |
| 1002.200 | 40.80 | --- | 74.00 | 33.20 | H | 28.57 | PASS |
| 1265.039 | 41.24 | --- | 74.00 | 32.76 | H | 30.41 | PASS |
| 1284.647 | --- | 29.31 | 54.00 | 24.69 | H | 30.66 | PASS |
| 1472.132 | --- | 30.99 | 54.00 | 23.01 | H | 32.43 | PASS |
| 1478.615 | 43.83 | --- | 74.00 | 30.17 | H | 32.37 | PASS |
| 1795.997 | 47.62 | --- | 74.00 | 26.38 | H | 36.48 | PASS |
| 1797.971 | --- | 35.64 | 54.00 | 18.36 | H | 36.63 | PASS |
| 2259.561 | 50.69 | --- | 74.00 | 23.31 | H | 39.14 | PASS |
| 2292.063 | --- | 38.92 | 54.00 | 15.08 | H | 39.60 | PASS |
| 2649.760 | --- | 43.62 | 54.00 | 10.38 | H | 43.32 | PASS |
| 2652.673 | 55.75 | --- | 74.00 | 18.25 | H | 43.29 | PASS |



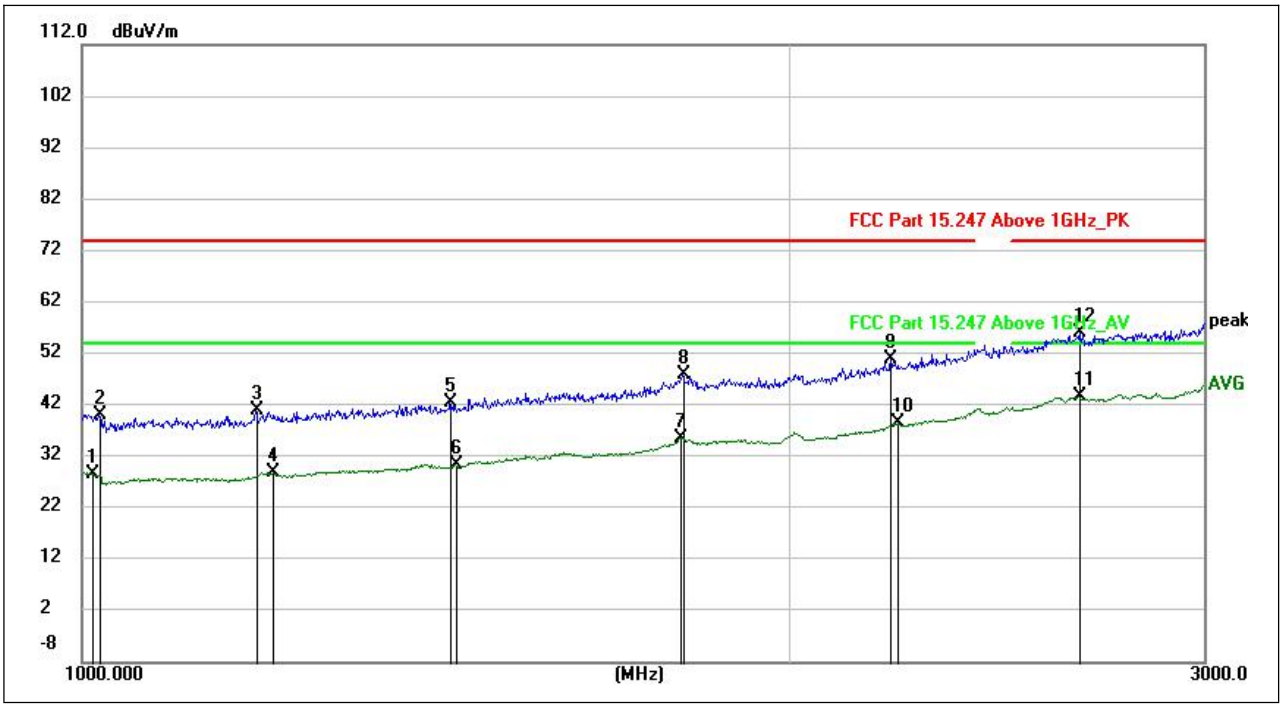

(GFSK _2402MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4401.000 | 41.42 | --- | 74.00 | 32.58 | H | -3.61 | PASS |
| 4401.000 | --- | 33.27 | 54.00 | 20.73 | H | -3.61 | PASS |
| 6477.000 | --- | 35.35 | 54.00 | 18.65 | H | -1.99 | PASS |
| 6642.750 | 43.99 | --- | 74.00 | 30.01 | H | -0.41 | PASS |
| 8553.750 | --- | 35.36 | 54.00 | 18.64 | H | 1.16 | PASS |
| 8757.750 | 43.79 | --- | 74.00 | 30.21 | H | 1.46 | PASS |
| 11517.000 | 44.23 | --- | 74.00 | 29.77 | H | 3.48 | PASS |
| 11720.250 | --- | 35.59 | 54.00 | 18.41 | H | 3.98 | PASS |
| 14064.750 | 46.59 | --- | 74.00 | 27.41 | H | 8.38 | PASS |
| 14173.500 | --- | 38.29 | 54.00 | 15.71 | H | 8.07 | PASS |
| 16118.250 | 48.56 | --- | 74.00 | 25.44 | H | 11.06 | PASS |
| 16118.250 | --- | 40.11 | 54.00 | 13.89 | H | 11.06 | PASS |



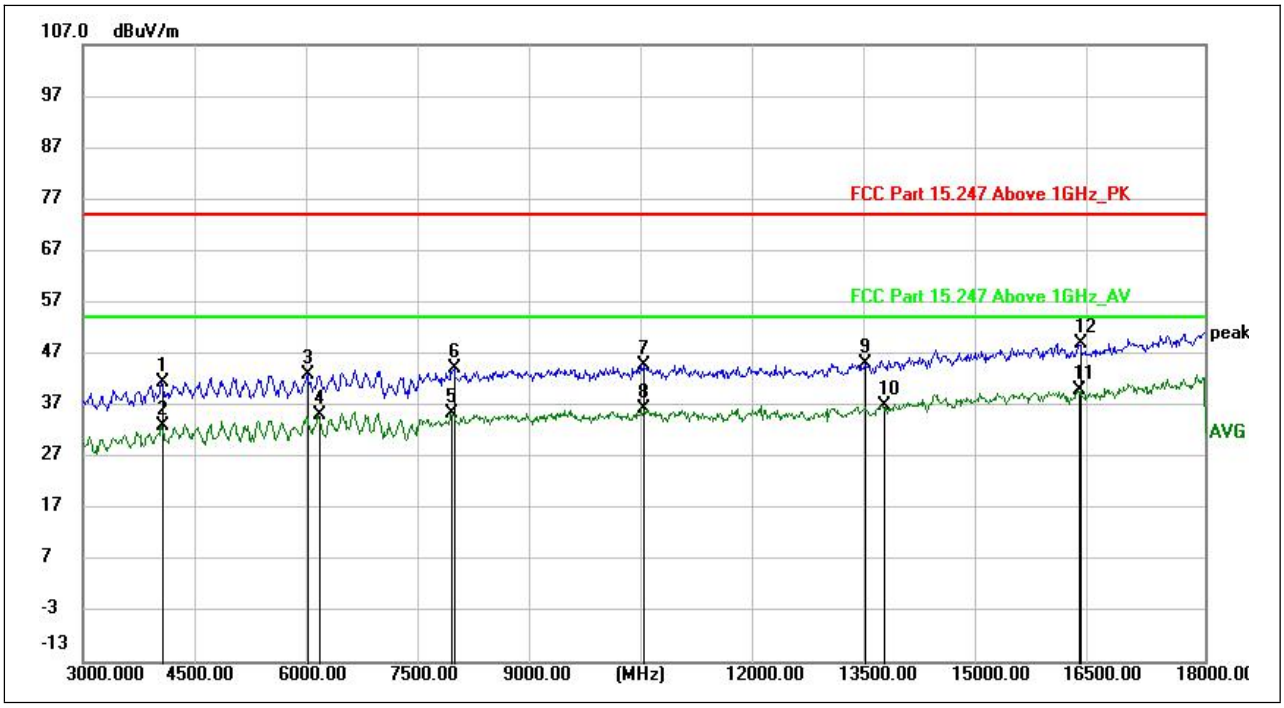

(GFSK _2402MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 33.82 | 40.00 | 6.18 | V | 13.90 | PASS |
| 56.5929 | 32.81 | 40.00 | 7.19 | V | 14.69 | PASS |
| 110.0079 | 28.63 | 43.50 | 14.87 | V | 14.97 | PASS |
| 188.3795 | 21.99 | 43.50 | 21.51 | V | 13.09 | PASS |
| 358.4939 | 21.22 | 46.00 | 24.78 | V | 18.47 | PASS |
| 729.2304 | 26.68 | 46.00 | 19.32 | V | 25.35 | PASS |



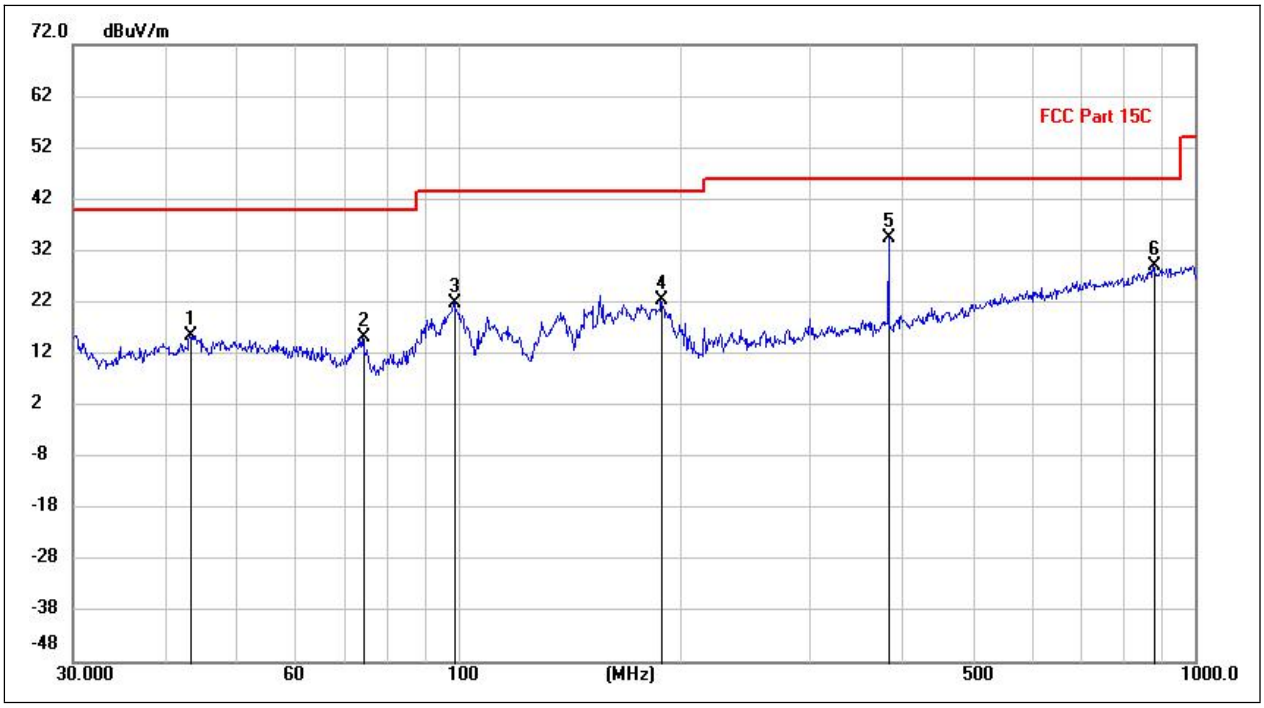

(GFSK _2402MHz, Antenna Vertical , 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1009.937 | --- | 28.72 | 54.00 | 25.28 | V | 28.33 | PASS |
| 1016.616 | 40.18 | --- | 74.00 | 33.82 | V | 27.96 | PASS |
| 1185.643 | 40.98 | --- | 74.00 | 33.02 | V | 29.75 | PASS |
| 1205.343 | --- | 28.85 | 54.00 | 25.15 | V | 30.43 | PASS |
| 1433.824 | 42.44 | --- | 74.00 | 31.56 | V | 31.50 | PASS |
| 1441.722 | --- | 30.33 | 54.00 | 23.67 | V | 31.63 | PASS |
| 1797.971 | --- | 35.58 | 54.00 | 18.42 | V | 36.63 | PASS |
| 1799.948 | 48.05 | --- | 74.00 | 25.95 | V | 36.78 | PASS |
| 2208.027 | 50.83 | --- | 74.00 | 23.17 | V | 38.95 | PASS |
| 2222.630 | --- | 38.58 | 54.00 | 15.42 | V | 39.07 | PASS |
| 2652.673 | --- | 43.65 | 54.00 | 10.35 | V | 43.29 | PASS |
| 2655.589 | 56.15 | --- | 74.00 | 17.85 | V | 43.25 | PASS |



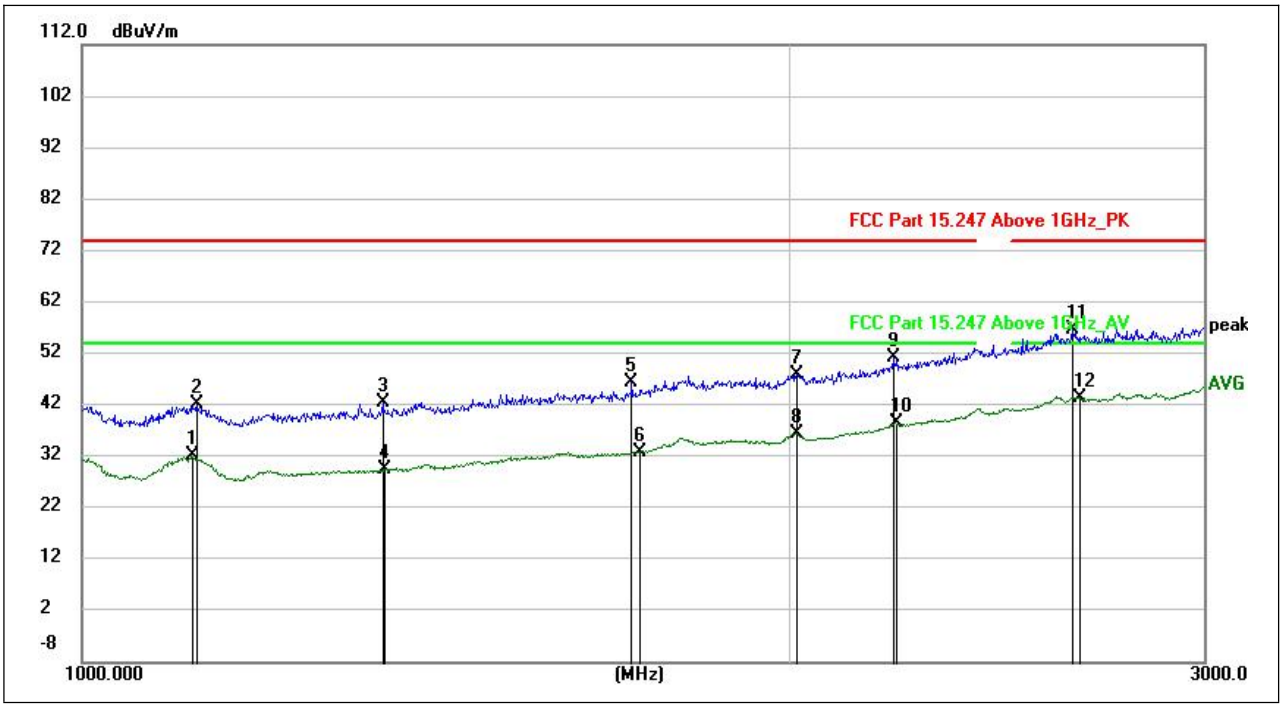

(GFSK _2402MHz, Antenna Vertical, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4059.000 | 41.30 | --- | 74.00 | 32.70 | V | -3.61 | PASS |
| 4059.000 | --- | 33.08 | 54.00 | 20.92 | V | -3.61 | PASS |
| 6012.750 | 42.87 | --- | 74.00 | 31.13 | V | -1.99 | PASS |
| 6156.000 | --- | 34.98 | 54.00 | 19.02 | V | -0.41 | PASS |
| 7934.250 | --- | 35.42 | 54.00 | 18.58 | V | 1.16 | PASS |
| 7968.000 | 44.28 | --- | 74.00 | 29.72 | V | 1.46 | PASS |
| 10491.000 | 44.81 | --- | 74.00 | 29.19 | V | 3.48 | PASS |
| 10491.000 | --- | 36.27 | 54.00 | 17.73 | V | 3.98 | PASS |
| 13462.500 | 45.06 | --- | 74.00 | 28.94 | V | 8.38 | PASS |
| 13699.500 | --- | 36.92 | 54.00 | 17.08 | V | 8.07 | PASS |
| 16310.250 | --- | 40.02 | 54.00 | 13.98 | V | 11.06 | PASS |
| 16335.750 | 48.81 | --- | 74.00 | 25.19 | V | 11.06 | PASS |



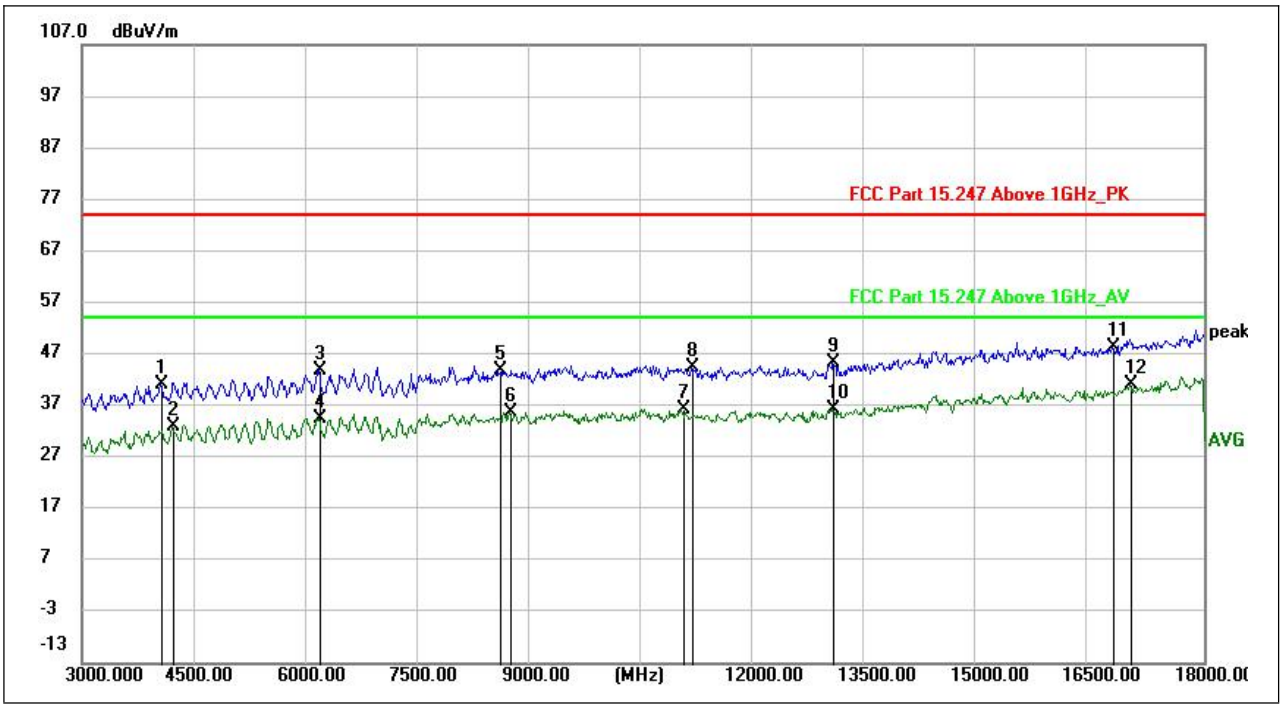

(GFSK _2440MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 43.2472 | 15.48 | 40.00 | 24.52 | H | 15.25 | PASS |
| 74.2131 | 15.16 | 40.00 | 24.84 | H | 9.97 | PASS |
| 98.6248 | 21.80 | 43.50 | 21.70 | H | 14.07 | PASS |
| 188.8093 | 22.46 | 43.50 | 21.04 | H | 13.20 | PASS |
| 383.9991 | 34.46 | 46.00 | 11.54 | H | 18.74 | PASS |
| 879.2459 | 28.89 | 46.00 | 17.11 | H | 27.67 | PASS |



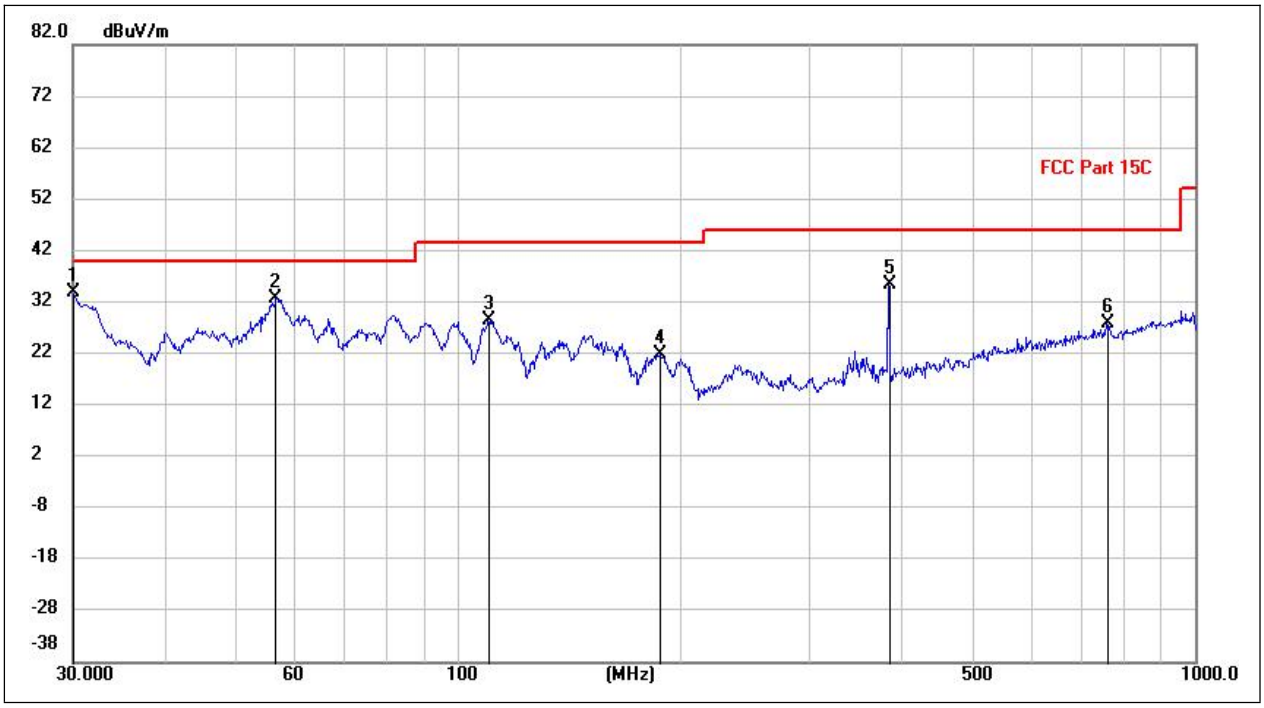

(GFSK _2440MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1113.674 | --- | 32.31 | 54.00 | 21.69 | H | 28.97 | PASS |
| 1118.578 | 42.12 | --- | 74.00 | 31.88 | H | 28.93 | PASS |
| 1342.358 | 42.39 | --- | 74.00 | 31.61 | H | 30.94 | PASS |
| 1345.311 | --- | 29.62 | 54.00 | 24.38 | H | 31.00 | PASS |
| 1713.126 | 46.47 | --- | 74.00 | 27.53 | H | 33.99 | PASS |
| 1726.352 | --- | 32.93 | 54.00 | 21.07 | H | 34.17 | PASS |
| 2013.382 | 47.99 | --- | 74.00 | 26.01 | H | 36.87 | PASS |
| 2013.382 | --- | 36.57 | 54.00 | 17.43 | H | 36.87 | PASS |
| 2212.884 | 51.16 | --- | 74.00 | 22.84 | H | 39.15 | PASS |
| 2217.752 | --- | 38.44 | 54.00 | 15.56 | H | 39.14 | PASS |
| 2638.141 | 56.78 | --- | 74.00 | 17.22 | H | 43.17 | PASS |
| 2652.673 | --- | 43.54 | 54.00 | 10.46 | H | 43.29 | PASS |



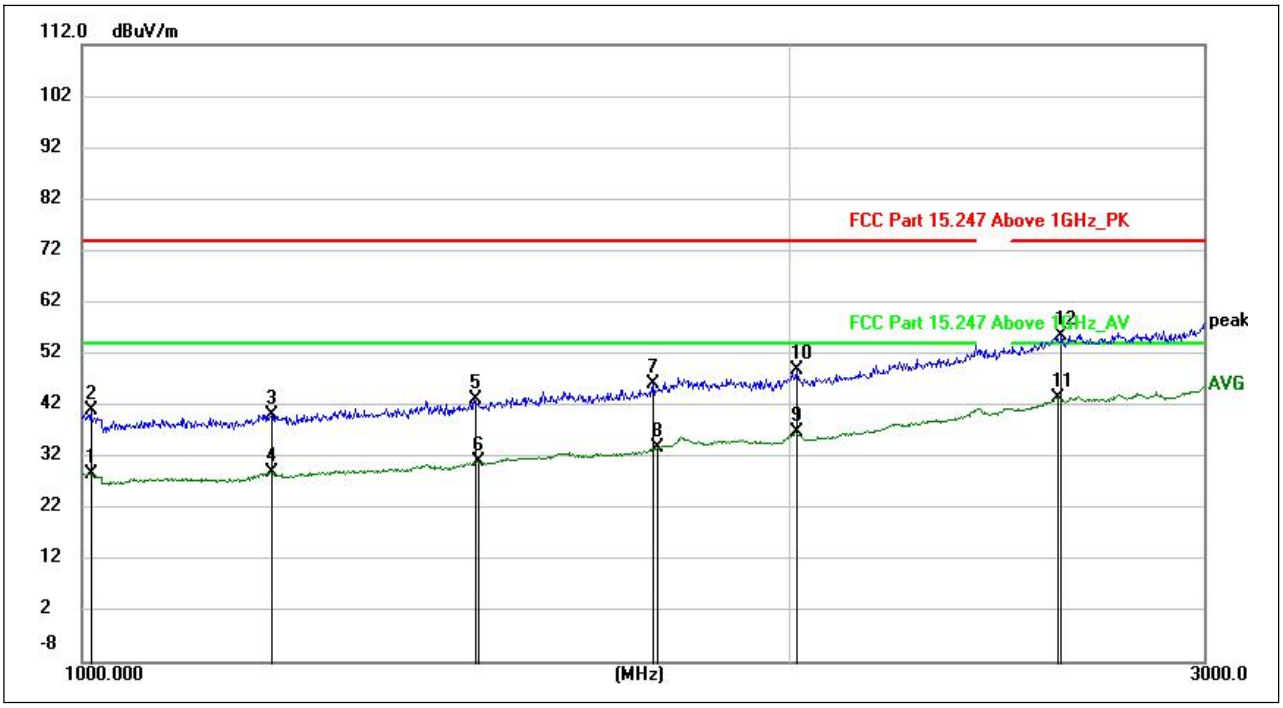

(GFSK _2440MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4061.250 | 41.23 | --- | 74.00 | 32.77 | H | -4.68 | PASS |
| 4223.250 | --- | 32.84 | 54.00 | 21.16 | H | -4.02 | PASS |
| 6173.250 | 43.92 | --- | 74.00 | 30.08 | H | -1.60 | PASS |
| 6173.250 | --- | 34.58 | 54.00 | 19.42 | H | -1.60 | PASS |
| 8583.750 | 43.86 | --- | 74.00 | 30.14 | H | 1.11 | PASS |
| 8733.750 | --- | 35.77 | 54.00 | 18.23 | H | 1.41 | PASS |
| 11028.750 | --- | 36.36 | 54.00 | 17.64 | H | 3.46 | PASS |
| 11159.250 | 44.31 | --- | 74.00 | 29.69 | H | 3.12 | PASS |
| 13037.250 | 45.20 | --- | 74.00 | 28.80 | H | 6.37 | PASS |
| 13037.250 | --- | 36.16 | 54.00 | 17.84 | H | 6.37 | PASS |
| 16774.500 | 48.23 | --- | 74.00 | 25.77 | H | 11.52 | PASS |
| 17022.750 | --- | 41.07 | 54.00 | 12.93 | H | 11.34 | PASS |



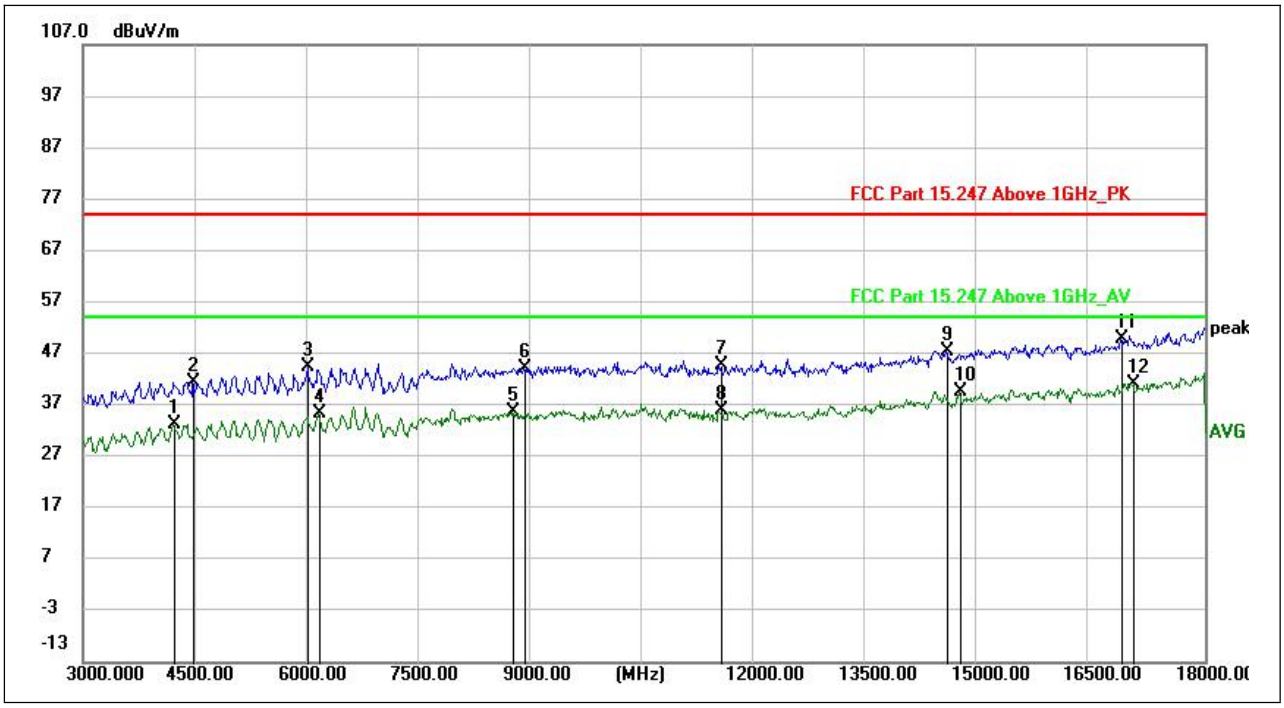

(GFSK _2440MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 33.93 | 40.00 | 6.07 | V | 13.90 | PASS |
| 56.5929 | 32.81 | 40.00 | 7.19 | V | 14.69 | PASS |
| 110.0079 | 28.63 | 43.50 | 14.87 | V | 14.97 | PASS |
| 188.3795 | 21.99 | 43.50 | 21.51 | V | 13.09 | PASS |
| 383.9991 | 35.49 | 46.00 | 10.51 | V | 18.74 | PASS |
| 759.7705 | 27.96 | 46.00 | 18.04 | V | 26.24 | PASS |



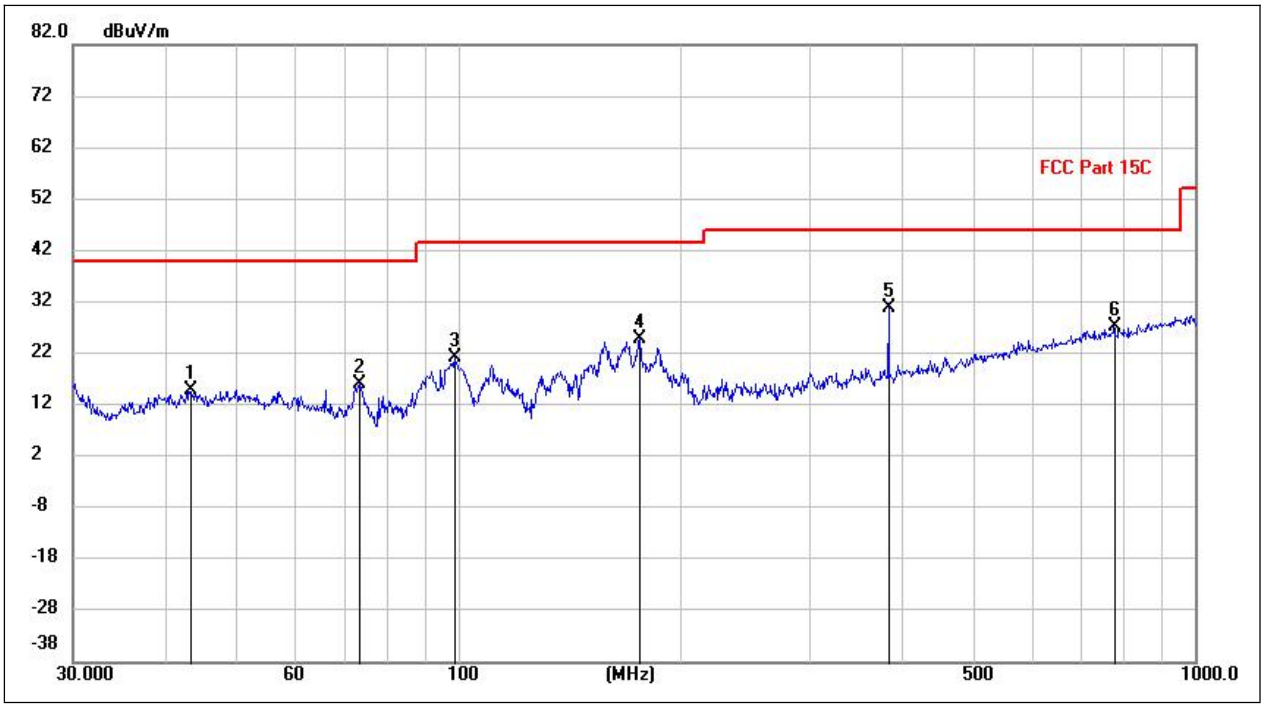

(GFSK _2440MHz, Antenna Vertical , 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1007.720 | --- | 28.65 | 54.00 | 25.35 | V | 28.42 | PASS |
| 1008.828 | 40.92 | --- | 74.00 | 33.08 | V | 28.39 | PASS |
| 1204.019 | 40.21 | --- | 74.00 | 33.79 | V | 30.50 | PASS |
| 1204.019 | --- | 28.93 | 54.00 | 25.07 | V | 30.50 | PASS |
| 1468.901 | 42.96 | --- | 74.00 | 31.04 | V | 32.36 | PASS |
| 1472.132 | --- | 31.01 | 54.00 | 22.99 | V | 32.43 | PASS |
| 1749.261 | 45.99 | --- | 74.00 | 28.01 | V | 34.69 | PASS |
| 1756.965 | --- | 33.84 | 54.00 | 20.16 | V | 34.91 | PASS |
| 2011.172 | --- | 36.74 | 54.00 | 17.26 | V | 36.99 | PASS |
| 2013.382 | 48.84 | --- | 74.00 | 25.16 | V | 36.87 | PASS |
| 2600.731 | --- | 43.38 | 54.00 | 10.62 | V | 43.66 | PASS |
| 2609.317 | 55.42 | --- | 74.00 | 18.58 | V | 43.18 | PASS |



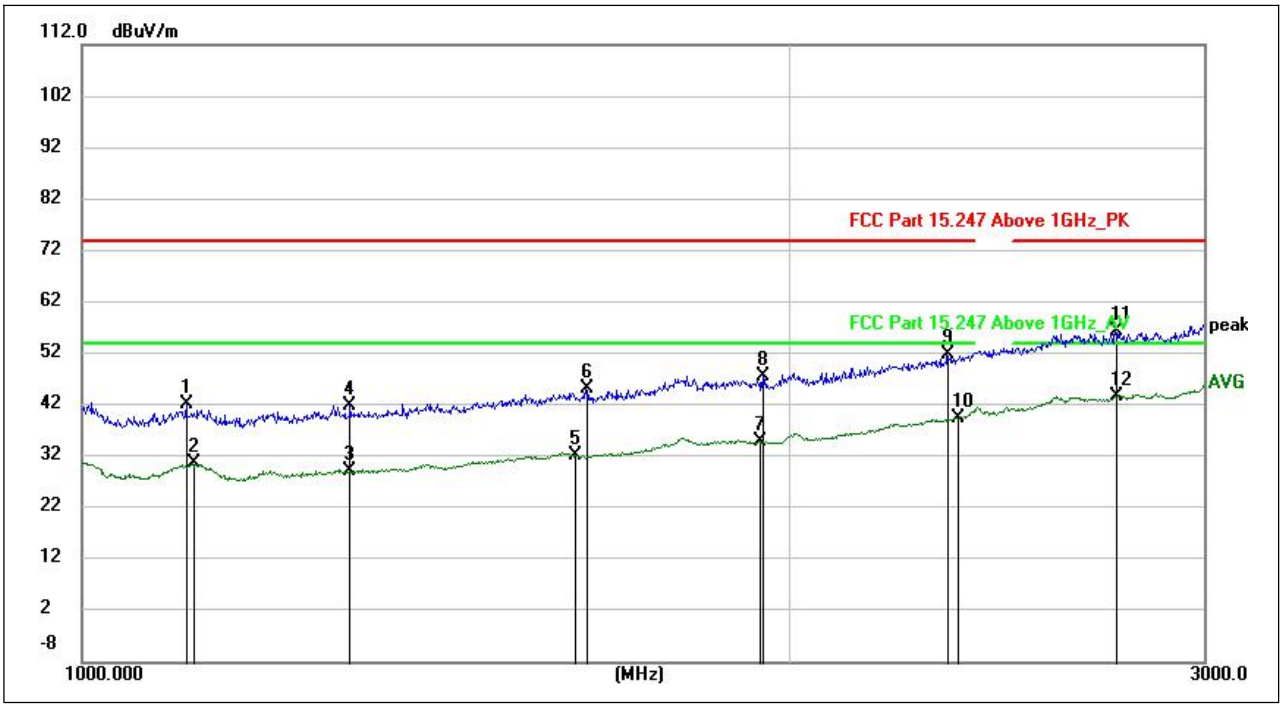

(GFSK _2440MHz, Antenna Vertical, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4228.500 | --- | 33.28 | 54.00 | 20.72 | V | -3.98 | PASS |
| 4480.500 | 41.52 | --- | 74.00 | 32.48 | V | -3.48 | PASS |
| 6010.500 | 44.56 | --- | 74.00 | 29.44 | V | -1.28 | PASS |
| 6164.250 | --- | 35.36 | 54.00 | 18.64 | V | -1.44 | PASS |
| 8758.500 | --- | 35.67 | 54.00 | 18.33 | V | 1.46 | PASS |
| 8907.750 | 44.18 | --- | 74.00 | 29.82 | V | 1.27 | PASS |
| 11523.750 | 44.68 | --- | 74.00 | 29.32 | V | 3.75 | PASS |
| 11523.750 | --- | 35.98 | 54.00 | 18.02 | V | 3.75 | PASS |
| 14550.000 | 47.53 | --- | 74.00 | 26.47 | V | 9.22 | PASS |
| 14723.250 | --- | 39.65 | 54.00 | 14.35 | V | 9.47 | PASS |
| 16878.000 | 50.00 | --- | 74.00 | 24.00 | V | 12.26 | PASS |
| 17029.500 | --- | 41.26 | 54.00 | 12.74 | V | 12.93 | PASS |



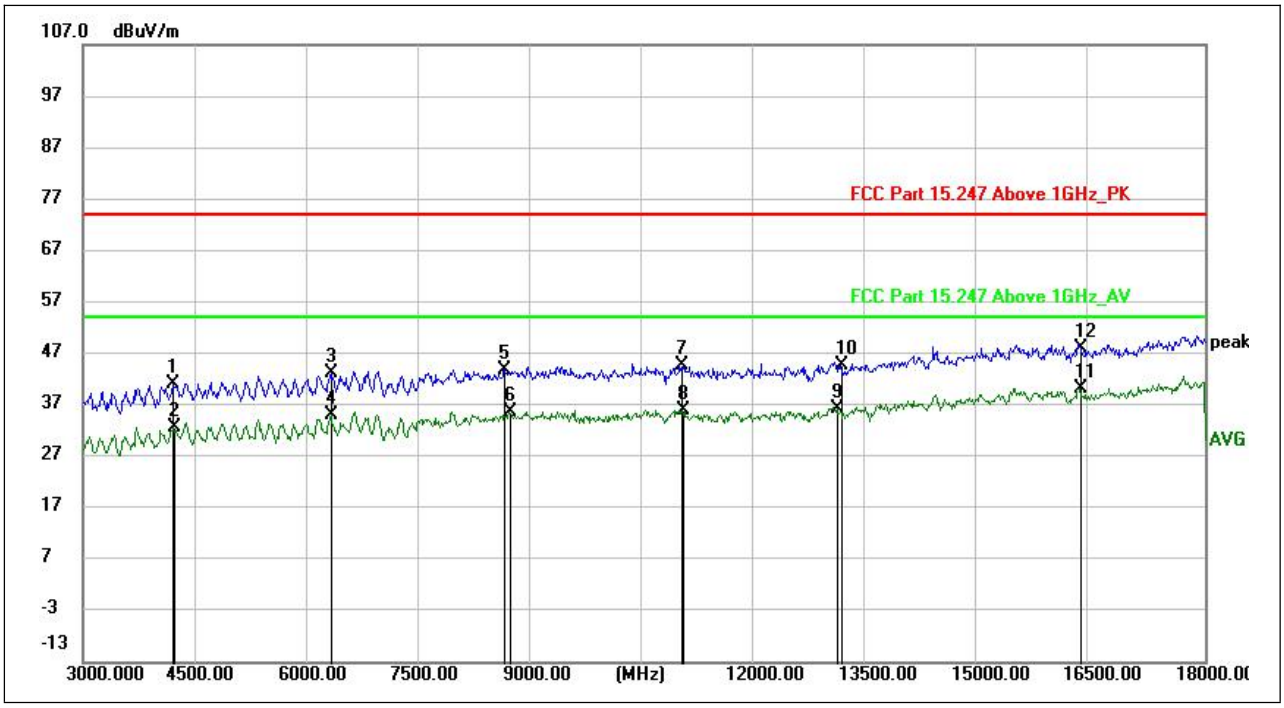

(GFSK _2480MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 43.2017 | 14.77 | 40.00 | 25.23 | H | 15.25 | PASS |
| 73.4237 | 16.06 | 40.00 | 23.94 | H | 10.19 | PASS |
| 98.9366 | 21.22 | 43.50 | 22.28 | H | 14.32 | PASS |
| 176.2686 | 24.77 | 43.50 | 18.73 | H | 11.76 | PASS |
| 383.9991 | 30.91 | 46.00 | 15.09 | H | 18.74 | PASS |
| 777.5592 | 27.14 | 46.00 | 18.86 | H | 26.04 | PASS |



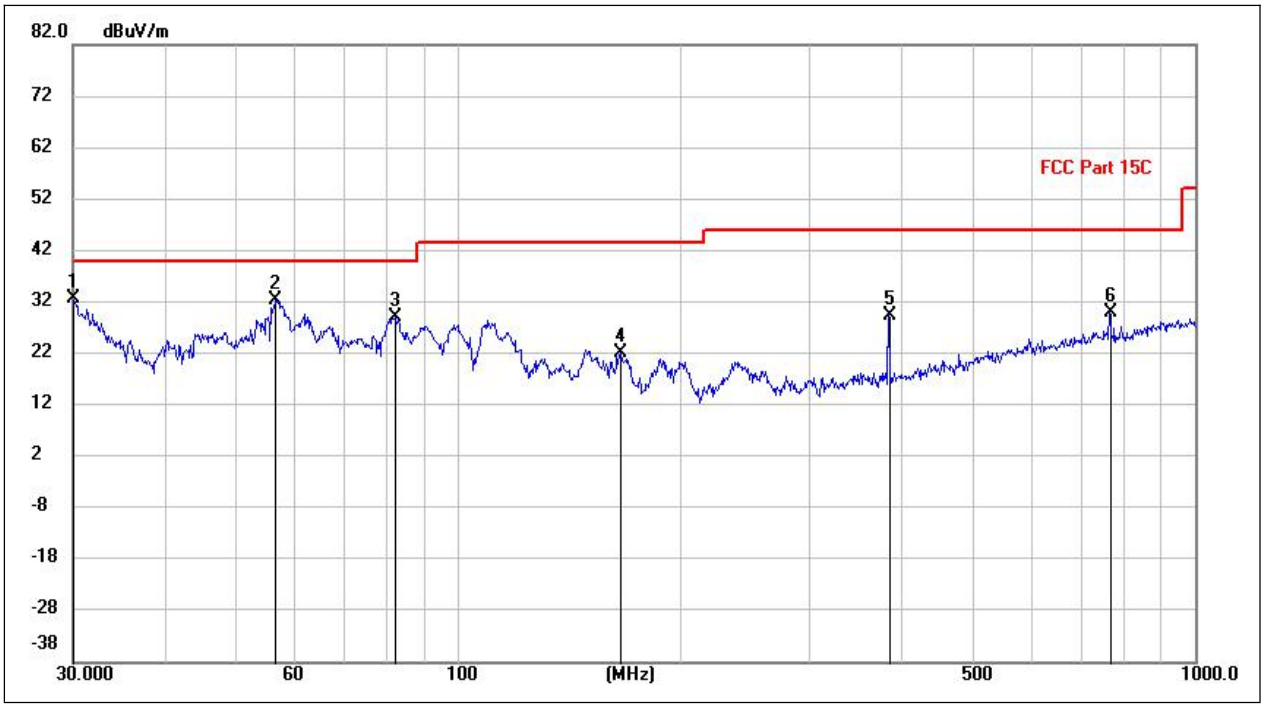

(GFSK _2480MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1107.573 | 42.17 | --- | 74.00 | 31.83 | H | 29.01 | PASS |
| 1114.898 | --- | 30.68 | 54.00 | 23.32 | H | 28.96 | PASS |
| 1298.838 | --- | 29.31 | 54.00 | 24.69 | H | 30.70 | PASS |
| 1300.265 | 41.87 | --- | 74.00 | 32.13 | H | 30.72 | PASS |
| 1621.561 | --- | 32.40 | 54.00 | 21.60 | H | 33.55 | PASS |
| 1637.674 | 45.24 | --- | 74.00 | 28.76 | H | 33.45 | PASS |
| 1941.696 | --- | 34.97 | 54.00 | 19.03 | H | 35.76 | PASS |
| 1948.106 | 47.55 | --- | 74.00 | 26.45 | H | 35.74 | PASS |
| 2332.709 | 51.78 | --- | 74.00 | 22.22 | H | 39.75 | PASS |
| 2358.477 | --- | 39.47 | 54.00 | 14.53 | H | 40.03 | PASS |
| 2750.608 | 56.38 | --- | 74.00 | 17.62 | H | 43.65 | PASS |
| 2753.631 | --- | 43.84 | 54.00 | 10.16 | H | 43.75 | PASS |



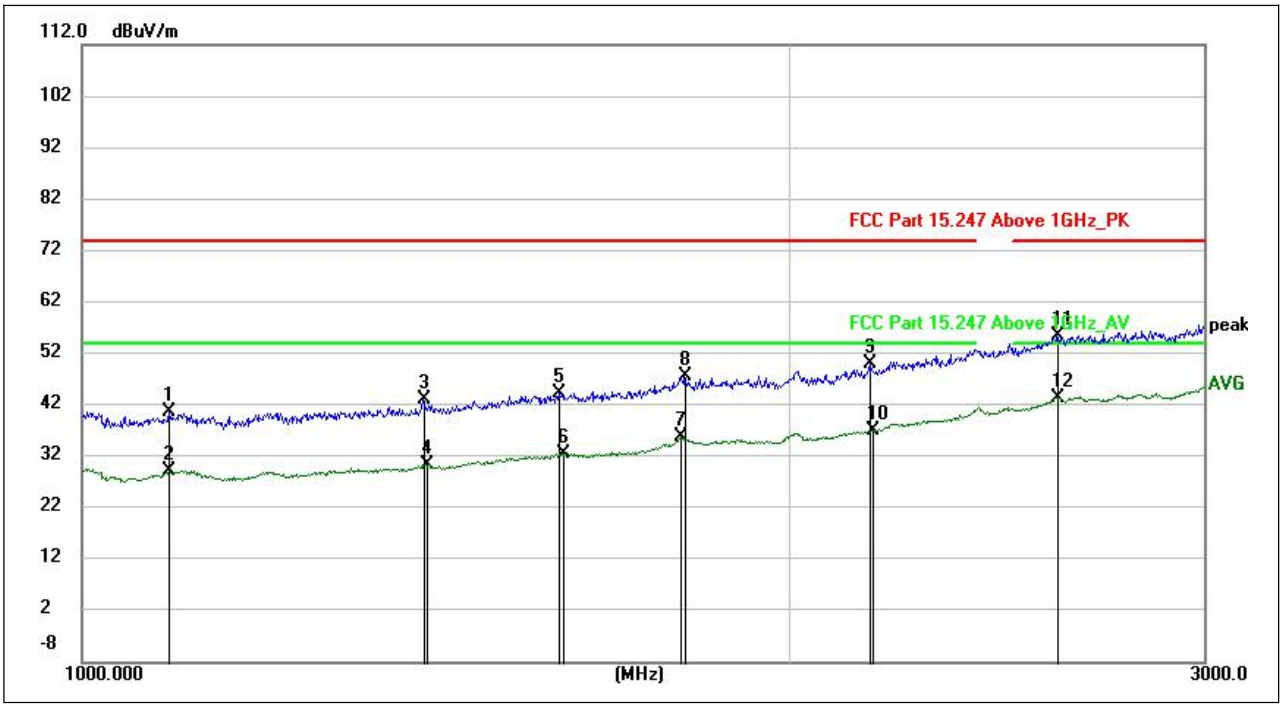

(GFSK _2480MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4212.750 | 40.99 | --- | 74.00 | 33.01 | H | -4.11 | PASS |
| 4229.250 | --- | 32.81 | 54.00 | 21.19 | H | -3.98 | PASS |
| 6326.250 | 43.34 | --- | 74.00 | 30.66 | H | -1.28 | PASS |
| 6326.250 | --- | 35.02 | 54.00 | 18.98 | H | -1.28 | PASS |
| 8638.500 | 43.91 | --- | 74.00 | 30.09 | H | 1.18 | PASS |
| 8711.250 | --- | 35.74 | 54.00 | 18.26 | H | 1.37 | PASS |
| 10998.000 | 44.71 | --- | 74.00 | 29.29 | H | 3.44 | PASS |
| 11022.000 | --- | 35.99 | 54.00 | 18.01 | H | 3.45 | PASS |
| 13083.000 | --- | 36.26 | 54.00 | 17.74 | H | 6.25 | PASS |
| 13134.000 | 44.63 | --- | 74.00 | 29.37 | H | 5.46 | PASS |
| 16324.500 | --- | 40.23 | 54.00 | 13.77 | H | 11.81 | PASS |
| 16342.500 | 48.06 | --- | 74.00 | 25.94 | H | 11.61 | PASS |



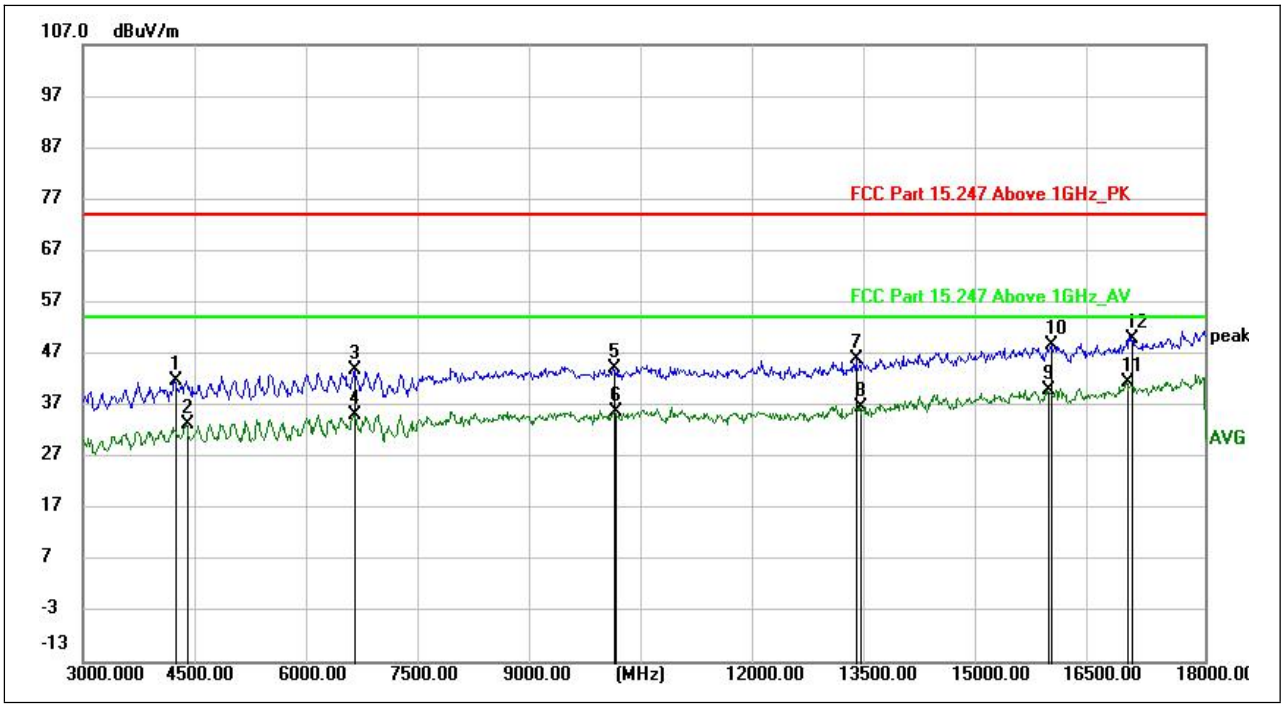

(GFSK _2480MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 32.78 | 40.00 | 7.22 | V | 13.90 | PASS |
| 56.5929 | 32.26 | 40.00 | 7.74 | V | 14.69 | PASS |
| 82.2290 | 28.96 | 40.00 | 11.04 | V | 9.99 | PASS |
| 166.0680 | 22.18 | 43.50 | 21.32 | V | 11.35 | PASS |
| 383.9991 | 29.27 | 46.00 | 16.73 | V | 18.74 | PASS |
| 768.0745 | 29.88 | 46.00 | 16.12 | V | 26.18 | PASS |




(GFSK _2480MHz, Antenna Vertical , 1GHz to 3GHz)

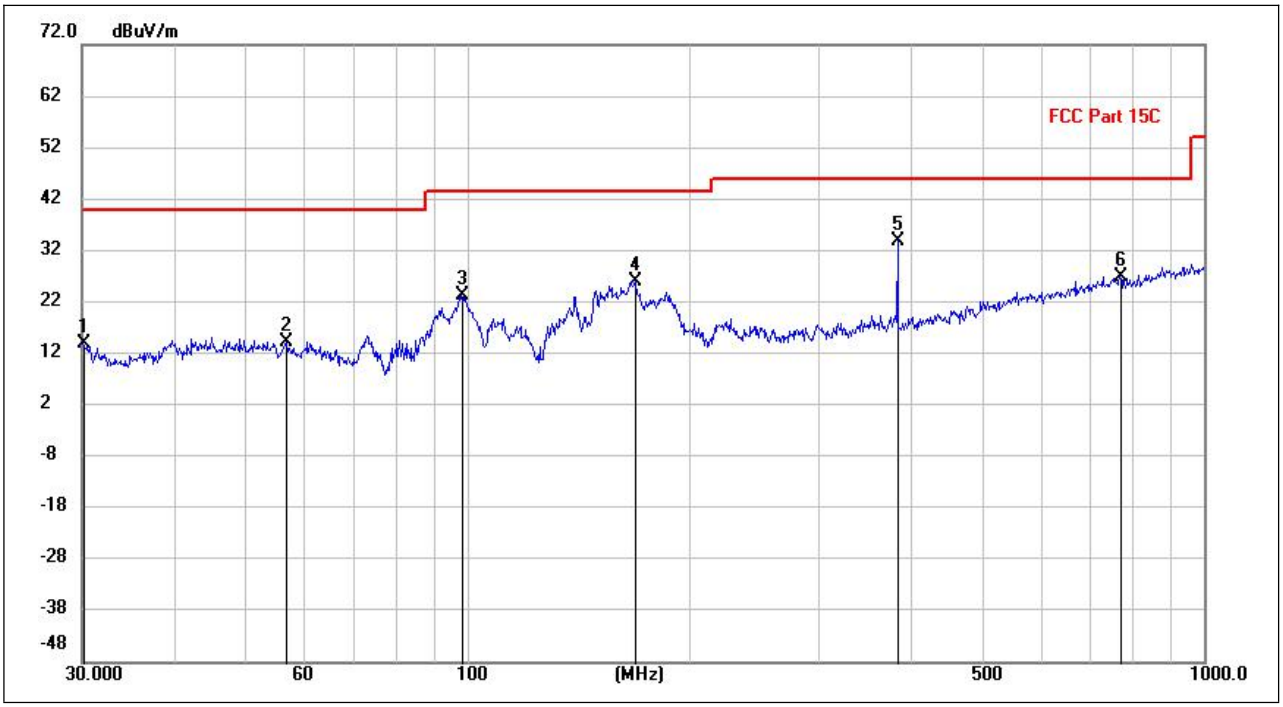
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1089.470 | 40.73 | --- | 74.00 | 33.27 | V | 29.01 | PASS |
| 1089.470 | --- | 29.32 | 54.00 | 24.68 | V | 29.01 | PASS |
| 1396.513 | 43.02 | --- | 74.00 | 30.98 | V | 31.86 | PASS |
| 1402.663 | --- | 30.51 | 54.00 | 23.49 | V | 31.90 | PASS |
| 1595.058 | 44.31 | --- | 74.00 | 29.69 | V | 34.01 | PASS |
| 1602.083 | --- | 32.69 | 54.00 | 21.31 | V | 34.16 | PASS |
| 1797.971 | --- | 35.73 | 54.00 | 18.27 | V | 36.63 | PASS |
| 1803.907 | 47.51 | --- | 74.00 | 26.49 | V | 36.52 | PASS |
| 2162.415 | 50.04 | --- | 74.00 | 23.96 | V | 37.79 | PASS |
| 2169.554 | --- | 37.18 | 54.00 | 16.82 | V | 37.89 | PASS |
| 2597.876 | 55.50 | --- | 74.00 | 18.50 | V | 43.56 | PASS |
| 2597.876 | --- | 43.47 | 54.00 | 10.53 | V | 43.56 | PASS |




(GFSK _2480MHz, Antenna Vertical, 3GHz to 18GHz)

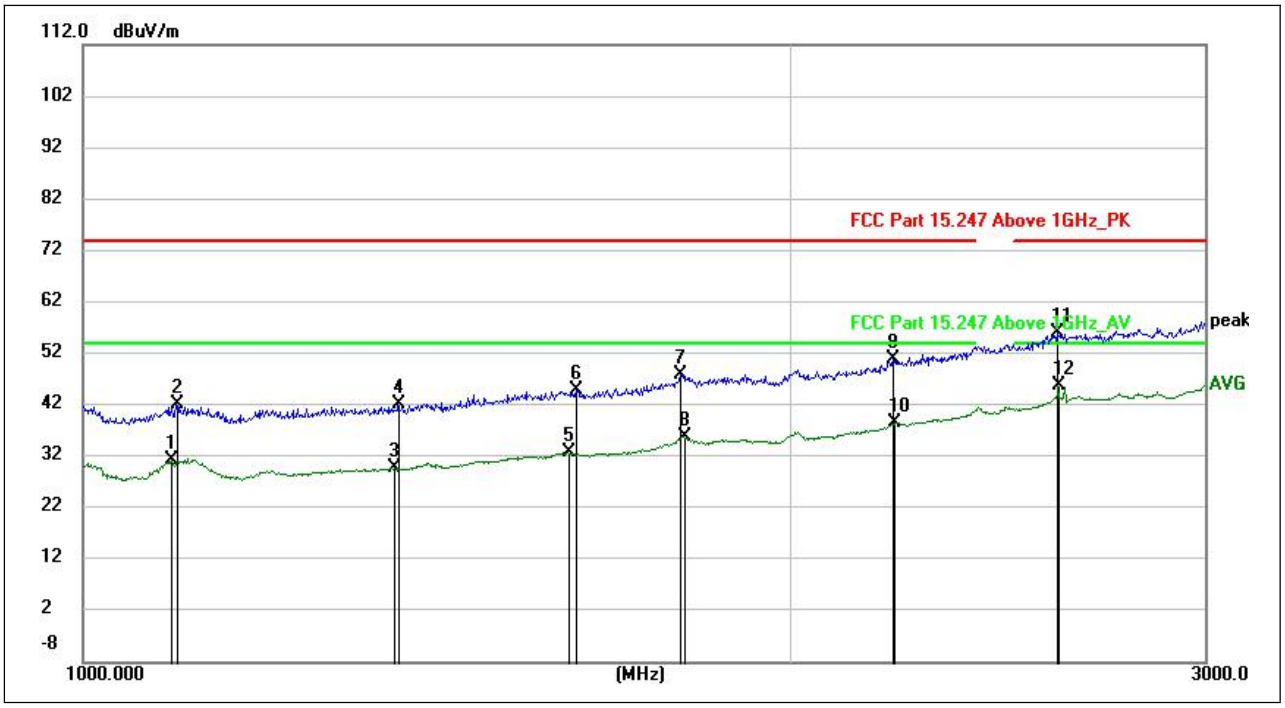
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4233.000 | 41.70 | --- | 74.00 | 32.30 | V | -3.95 | PASS |
| 4390.500 | --- | 33.18 | 54.00 | 20.82 | V | -3.54 | PASS |
| 6639.750 | 43.81 | --- | 74.00 | 30.19 | V | -0.46 | PASS |
| 6639.750 | --- | 35.08 | 54.00 | 18.92 | V | -0.46 | PASS |
| 10106.250 | 44.28 | --- | 74.00 | 29.72 | V | 2.62 | PASS |
| 10110.750 | --- | 35.75 | 54.00 | 18.25 | V | 2.57 | PASS |
| 13341.750 | 46.03 | --- | 74.00 | 27.97 | V | 6.32 | PASS |
| 13389.750 | --- | 36.61 | 54.00 | 17.39 | V | 6.40 | PASS |
| 15907.500 | --- | 40.01 | 54.00 | 13.99 | V | 10.90 | PASS |
| 15951.000 | 48.56 | --- | 74.00 | 25.44 | V | 11.14 | PASS |
| 16958.250 | --- | 41.52 | 54.00 | 12.48 | V | 12.63 | PASS |
| 17020.500 | 49.77 | --- | 74.00 | 24.23 | V | 12.93 | PASS |

**π/4-DQPSK Test mode**



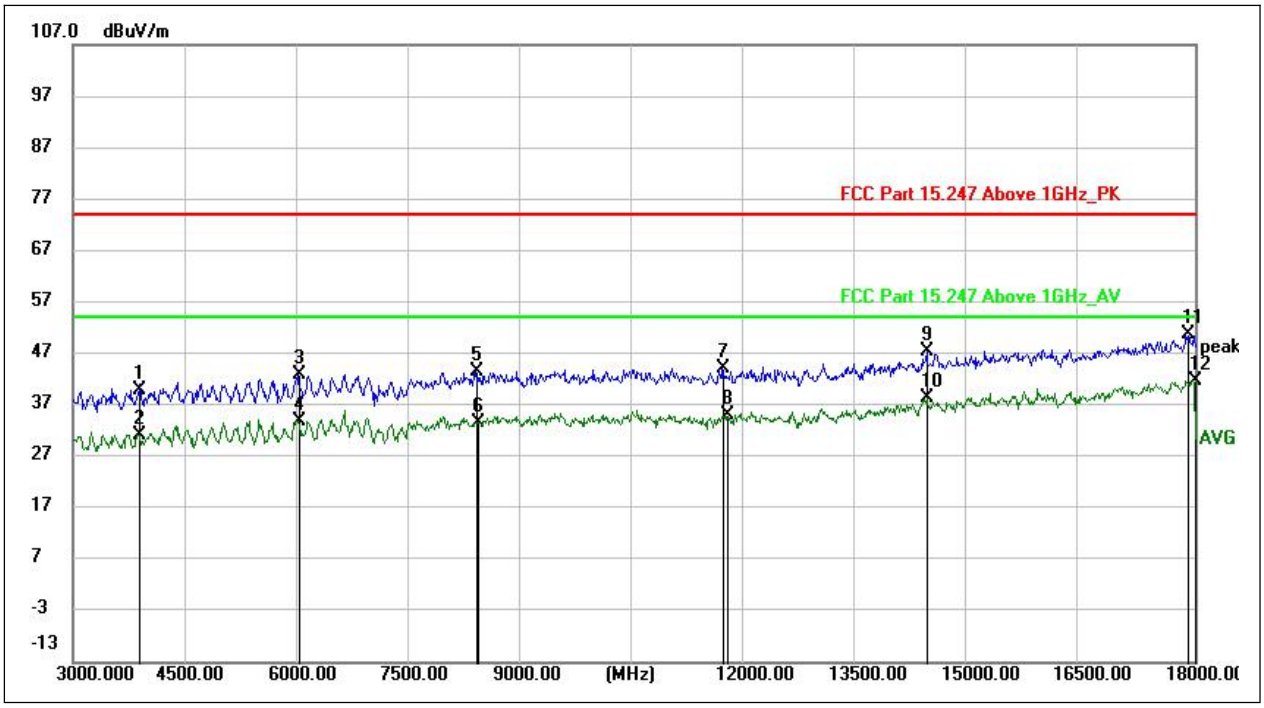

(π/4-DQPSK _2402MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.1952 | 13.96 | 40.00 | 26.04 | H | 13.55 | PASS |
| 56.9812 | 14.27 | 40.00 | 25.73 | H | 14.57 | PASS |
| 98.4003 | 23.45 | 43.50 | 20.05 | H | 13.87 | PASS |
| 169.3316 | 26.08 | 43.50 | 17.42 | H | 12.32 | PASS |
| 383.9991 | 33.98 | 46.00 | 12.02 | H | 18.74 | PASS |
| 769.6922 | 26.84 | 46.00 | 19.16 | H | 26.15 | PASS |



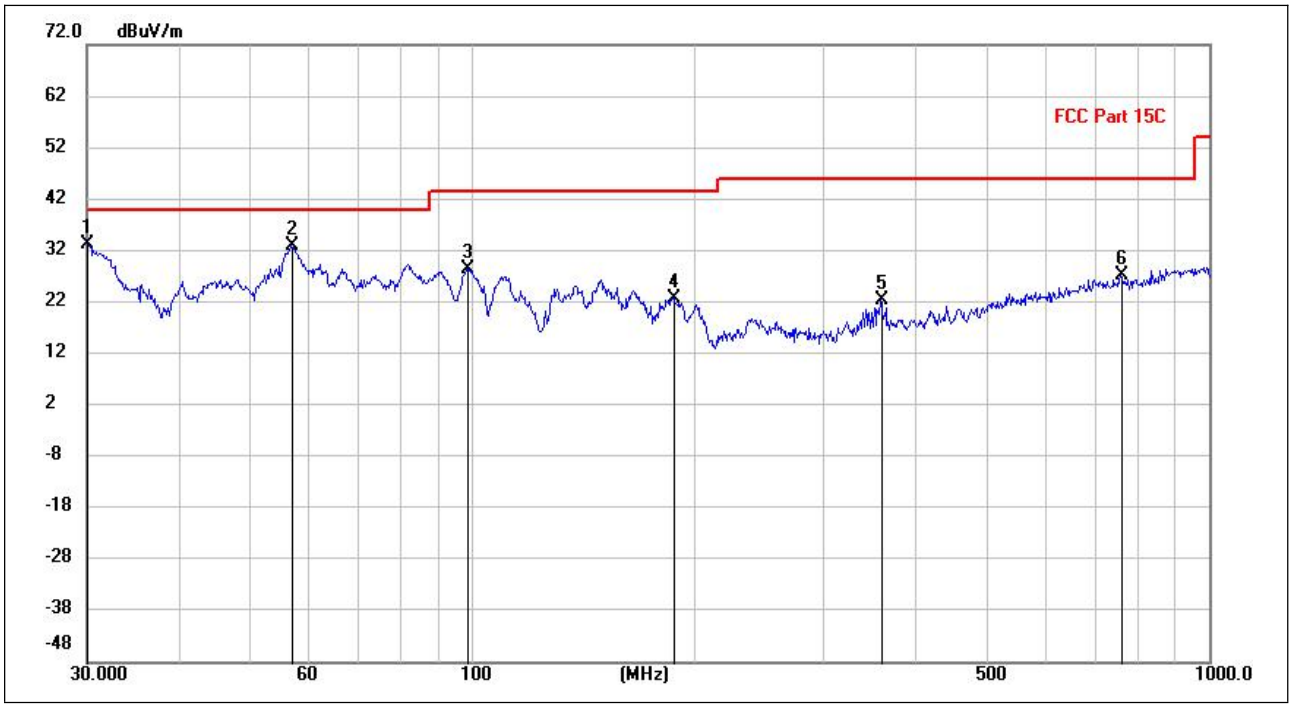

(π/4-DQPSK _2402MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1090.668 | --- | 31.25 | 54.00 | 22.75 | H | 29.04 | PASS |
| 1095.472 | 42.25 | --- | 74.00 | 31.75 | H | 29.07 | PASS |
| 1357.187 | --- | 29.95 | 54.00 | 24.05 | H | 31.07 | PASS |
| 1361.668 | 42.11 | --- | 74.00 | 31.89 | H | 31.05 | PASS |
| 1607.372 | --- | 32.92 | 54.00 | 21.08 | H | 33.98 | PASS |
| 1621.561 | 45.05 | --- | 74.00 | 28.95 | H | 33.55 | PASS |
| 1795.997 | 48.03 | --- | 74.00 | 25.97 | H | 36.48 | PASS |
| 1799.948 | --- | 35.93 | 54.00 | 18.07 | H | 36.78 | PASS |
| 2210.454 | 50.87 | --- | 74.00 | 23.13 | H | 39.05 | PASS |
| 2215.316 | --- | 38.55 | 54.00 | 15.45 | H | 39.16 | PASS |
| 2595.023 | 56.01 | --- | 74.00 | 17.99 | H | 43.36 | PASS |
| 2597.876 | --- | 45.72 | 54.00 | 8.28 | H | 43.56 | PASS |



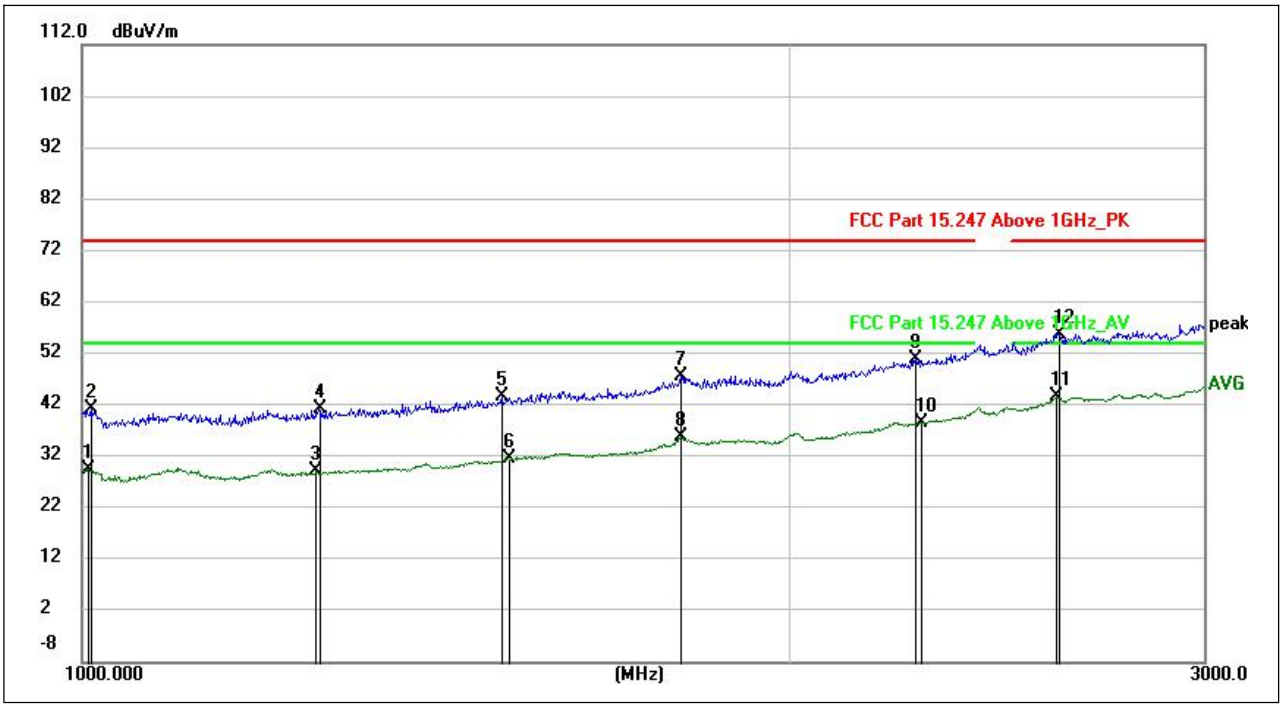

(π/4-DQPSK _2402MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3897.750 | 39.84 | --- | 74.00 | 34.16 | H | -4.73 | PASS |
| 3897.750 | --- | 31.29 | 54.00 | 22.71 | H | -4.73 | PASS |
| 6017.250 | 43.03 | --- | 74.00 | 30.97 | H | -2.58 | PASS |
| 6024.750 | --- | 33.90 | 54.00 | 20.10 | H | -2.43 | PASS |
| 8388.750 | 43.67 | --- | 74.00 | 30.33 | H | 0.79 | PASS |
| 8417.250 | --- | 33.67 | 54.00 | 20.33 | H | 0.91 | PASS |
| 11695.500 | 44.04 | --- | 74.00 | 29.96 | H | 4.03 | PASS |
| 11754.750 | --- | 34.94 | 54.00 | 19.06 | H | 3.90 | PASS |
| 14419.500 | 47.39 | --- | 74.00 | 26.61 | H | 9.27 | PASS |
| 14419.500 | --- | 38.37 | 54.00 | 15.63 | H | 9.27 | PASS |
| 17898.750 | 50.76 | --- | 74.00 | 23.24 | H | 14.53 | PASS |
| 17988.750 | --- | 41.76 | 54.00 | 12.24 | H | 15.03 | PASS |



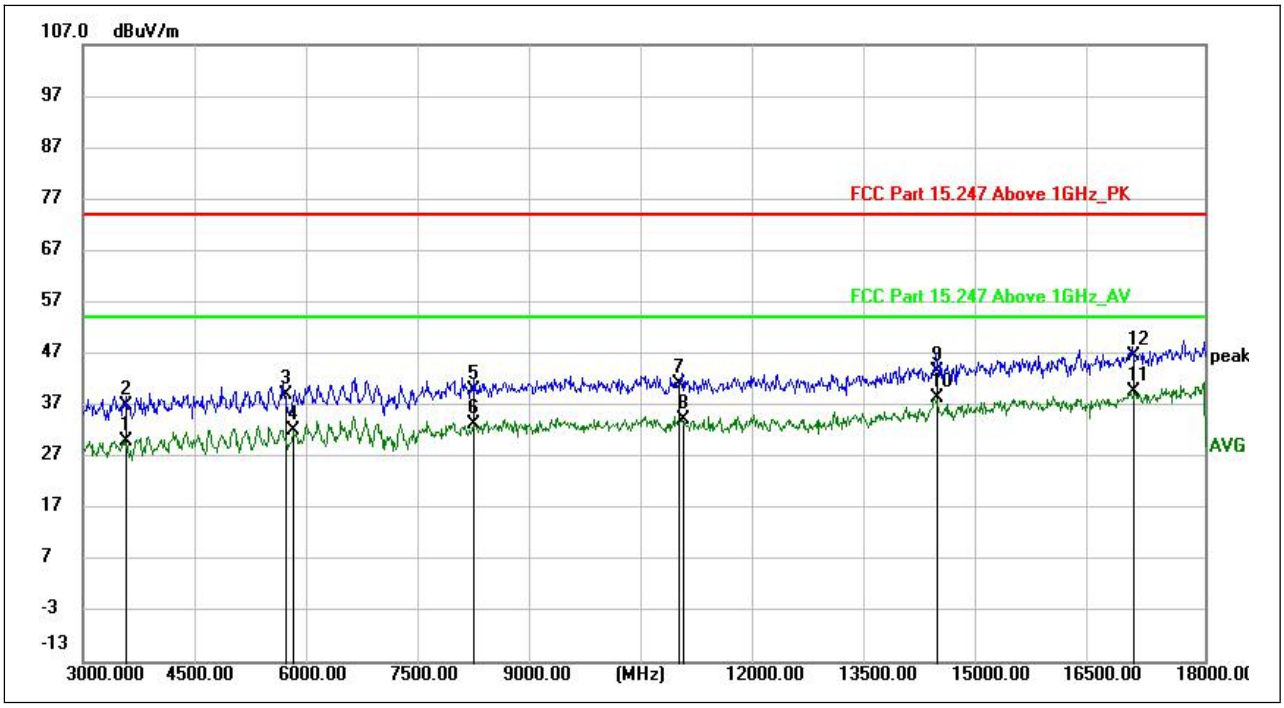

(π/4-DQPSK _2402MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 33.28 | 40.00 | 6.72 | V | 13.90 | PASS |
| 56.9014 | 32.83 | 40.00 | 7.17 | V | 14.59 | PASS |
| 98.5039 | 28.45 | 43.50 | 15.05 | V | 13.96 | PASS |
| 187.6214 | 22.84 | 43.50 | 20.66 | V | 12.89 | PASS |
| 358.1798 | 22.38 | 46.00 | 23.62 | V | 18.44 | PASS |
| 760.1703 | 27.29 | 46.00 | 18.71 | V | 26.26 | PASS |



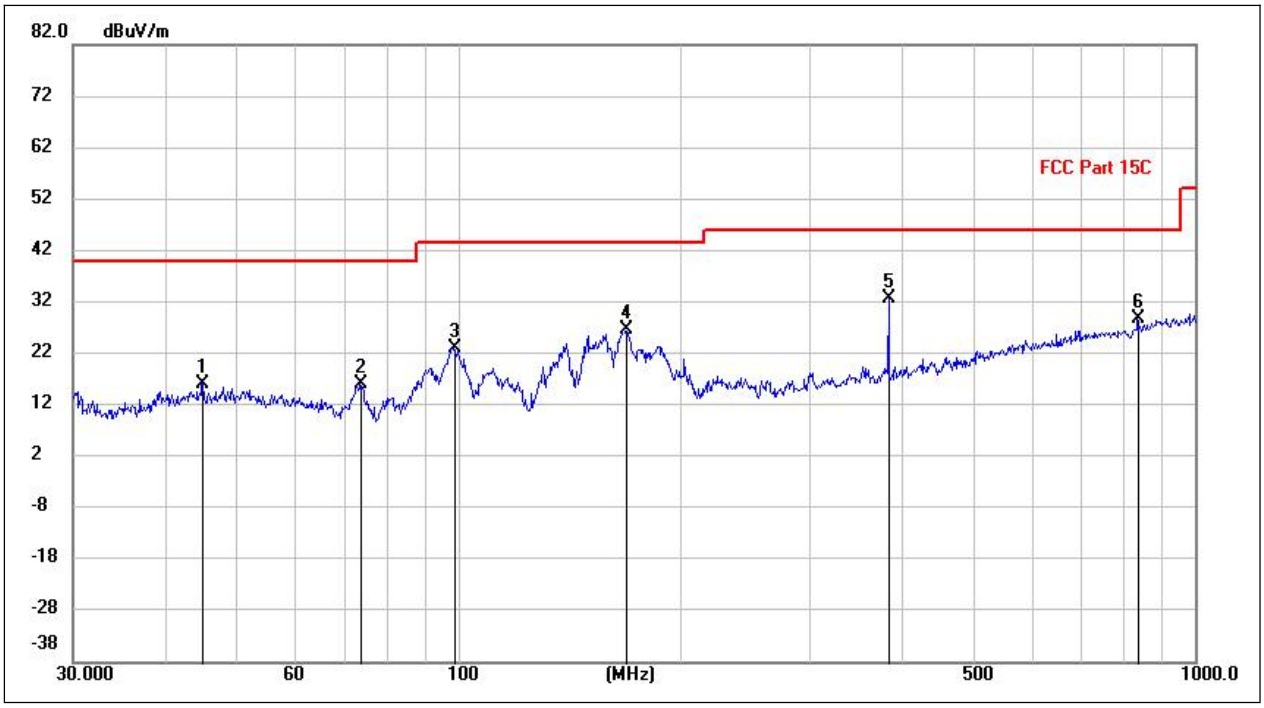

(π/4-DQPSK _2402MHz, Antenna Vertical , 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1006.613 | --- | 29.41 | 54.00 | 24.59 | V | 28.46 | PASS |
| 1008.828 | 41.44 | --- | 74.00 | 32.56 | V | 28.39 | PASS |
| 1258.109 | --- | 29.17 | 54.00 | 24.83 | V | 30.34 | PASS |
| 1260.877 | 41.43 | --- | 74.00 | 32.57 | V | 30.37 | PASS |
| 1508.146 | 43.64 | --- | 74.00 | 30.36 | V | 32.68 | PASS |
| 1518.120 | --- | 31.70 | 54.00 | 22.30 | V | 32.90 | PASS |
| 1797.971 | 47.65 | --- | 74.00 | 26.35 | V | 36.63 | PASS |
| 1797.971 | --- | 35.76 | 54.00 | 18.24 | V | 36.63 | PASS |
| 2262.044 | 50.90 | --- | 74.00 | 23.10 | V | 39.16 | PASS |
| 2274.504 | --- | 38.64 | 54.00 | 15.36 | V | 39.27 | PASS |
| 2595.023 | --- | 43.56 | 54.00 | 10.44 | V | 43.36 | PASS |
| 2603.590 | 55.79 | --- | 74.00 | 18.21 | V | 43.50 | PASS |



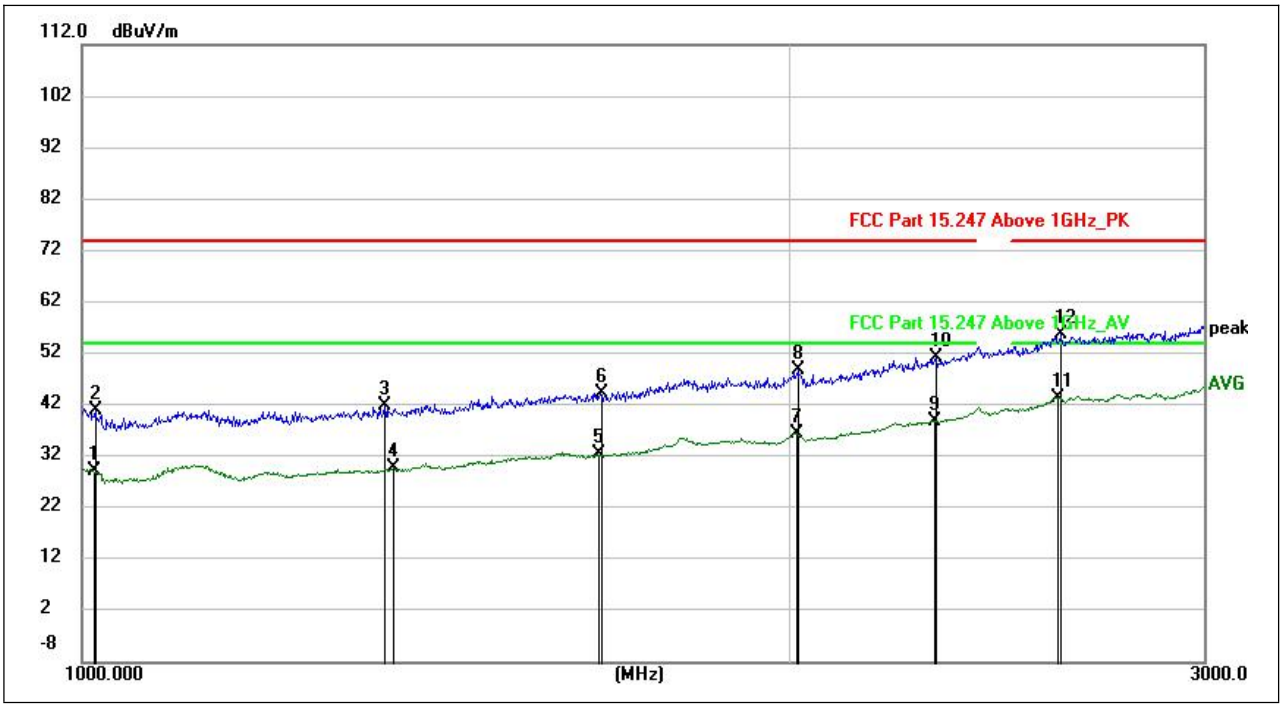

(π/4-DQPSK _2402MHz, Antenna Vertical, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3570.750 | --- | 30.00 | 54.00 | 24.00 | V | -5.65 | PASS |
| 3584.250 | 36.87 | --- | 74.00 | 37.13 | V | -5.70 | PASS |
| 5706.750 | 38.90 | --- | 74.00 | 35.10 | V | -2.50 | PASS |
| 5813.250 | --- | 32.17 | 54.00 | 21.83 | V | -2.85 | PASS |
| 8219.250 | 39.96 | --- | 74.00 | 34.04 | V | 1.05 | PASS |
| 8228.250 | --- | 33.23 | 54.00 | 20.77 | V | 1.15 | PASS |
| 10977.000 | 41.02 | --- | 74.00 | 32.98 | V | 3.15 | PASS |
| 11022.000 | --- | 34.04 | 54.00 | 19.96 | V | 3.27 | PASS |
| 14403.000 | 43.49 | --- | 74.00 | 30.51 | V | 9.42 | PASS |
| 14403.000 | --- | 38.32 | 54.00 | 15.68 | V | 9.42 | PASS |
| 17030.250 | --- | 39.55 | 54.00 | 14.45 | V | 12.93 | PASS |
| 17046.000 | 46.58 | --- | 74.00 | 27.42 | V | 12.88 | PASS |



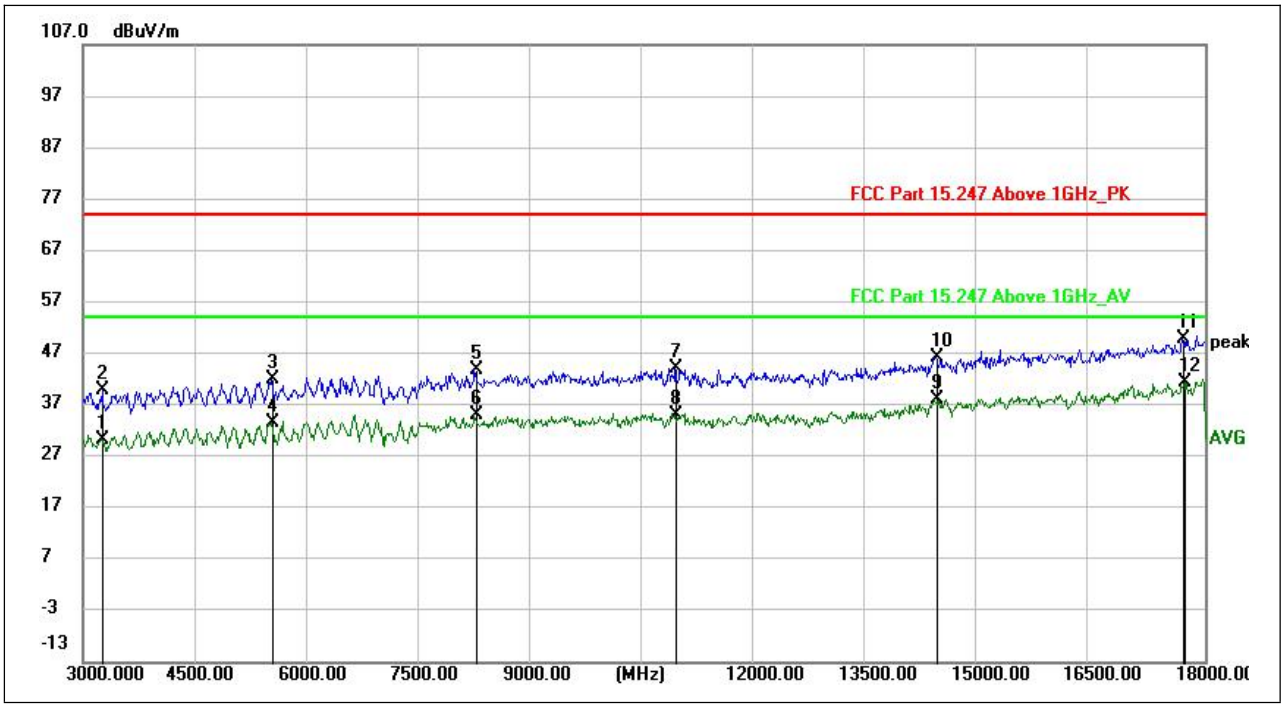

(π/4-DQPSK _2440MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 45.0110 | 16.06 | 40.00 | 23.94 | H | 15.44 | PASS |
| 73.7850 | 16.25 | 40.00 | 23.75 | H | 10.08 | PASS |
| 98.5557 | 23.18 | 43.50 | 20.32 | H | 14.00 | PASS |
| 168.4138 | 26.63 | 43.50 | 16.87 | H | 12.07 | PASS |
| 383.9991 | 32.81 | 46.00 | 13.19 | H | 18.74 | PASS |
| 838.2995 | 28.68 | 46.00 | 17.32 | H | 26.75 | PASS |



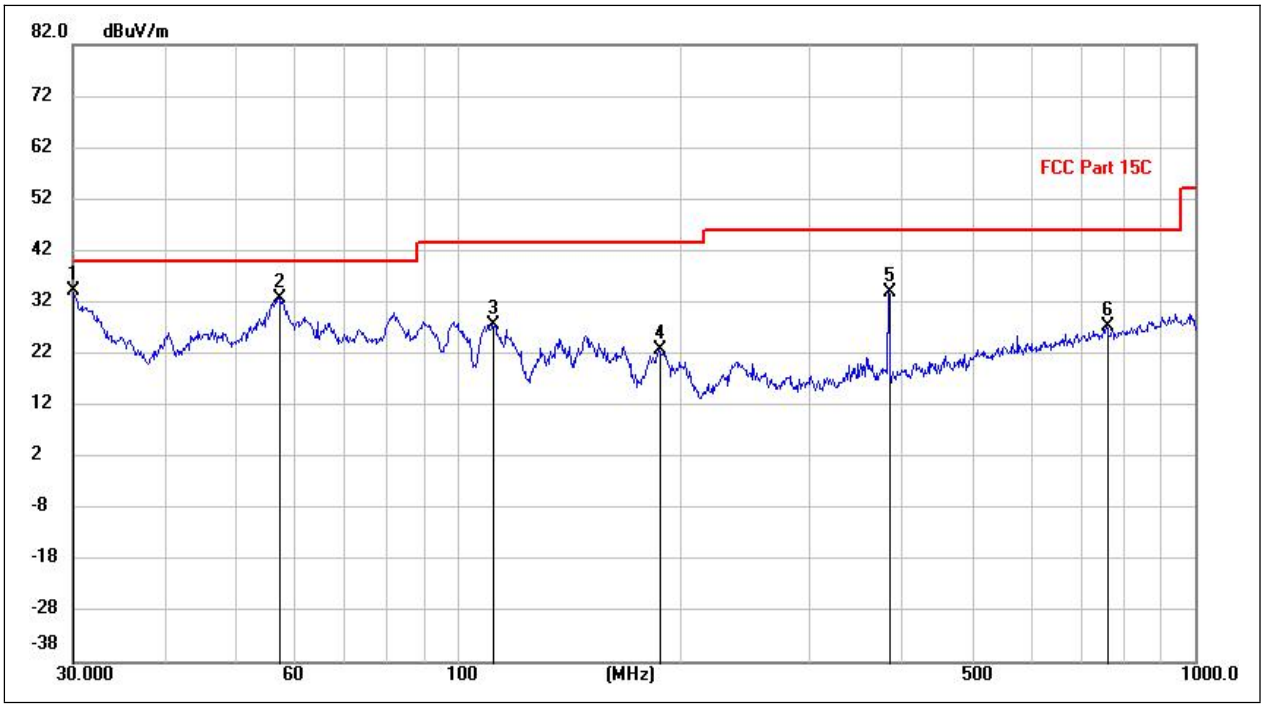

(π/4-DQPSK _2440MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1011.047 | --- | 29.24 | 54.00 | 24.76 | H | 28.27 | PASS |
| 1013.271 | 40.85 | --- | 74.00 | 33.15 | H | 28.14 | PASS |
| 1345.311 | 41.79 | --- | 74.00 | 32.21 | H | 31.00 | PASS |
| 1357.187 | --- | 29.70 | 54.00 | 24.30 | H | 31.07 | PASS |
| 1657.585 | --- | 32.41 | 54.00 | 21.59 | H | 33.70 | PASS |
| 1661.231 | 44.45 | --- | 74.00 | 29.55 | H | 33.71 | PASS |
| 2011.172 | --- | 36.48 | 54.00 | 17.52 | H | 36.99 | PASS |
| 2015.595 | 48.78 | --- | 74.00 | 25.22 | H | 36.75 | PASS |
| 2304.688 | --- | 39.00 | 54.00 | 15.00 | H | 39.70 | PASS |
| 2307.221 | 51.20 | --- | 74.00 | 22.80 | H | 39.69 | PASS |
| 2597.876 | --- | 43.55 | 54.00 | 10.45 | H | 43.56 | PASS |
| 2609.317 | 55.68 | --- | 74.00 | 18.32 | H | 43.18 | PASS |



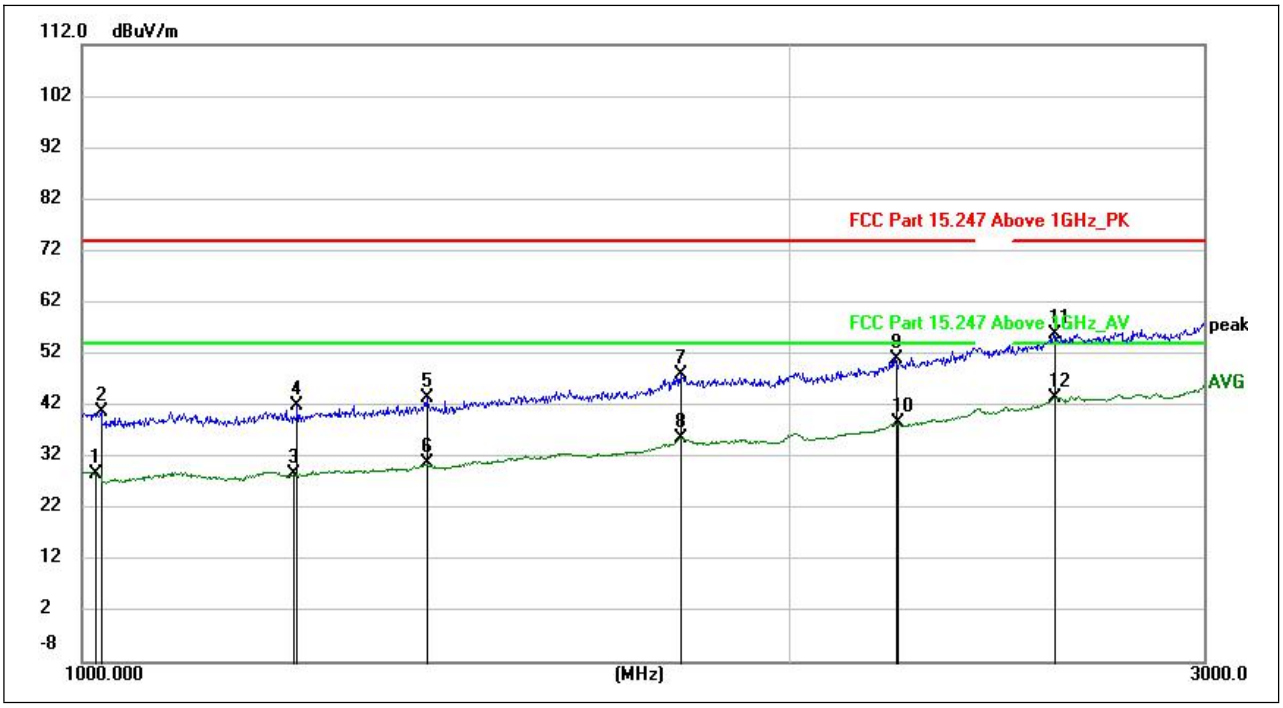

(π/4-DQPSK _2440MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3256.500 | --- | 30.17 | 54.00 | 23.83 | H | -5.95 | PASS |
| 3267.000 | 40.01 | --- | 74.00 | 33.99 | H | -5.75 | PASS |
| 5533.500 | 41.91 | --- | 74.00 | 32.09 | H | -2.66 | PASS |
| 5533.500 | --- | 33.56 | 54.00 | 20.44 | H | -2.66 | PASS |
| 8253.750 | 43.76 | --- | 74.00 | 30.24 | H | 1.40 | PASS |
| 8253.750 | --- | 34.97 | 54.00 | 19.03 | H | 1.40 | PASS |
| 10925.250 | 44.18 | --- | 74.00 | 29.82 | H | 3.35 | PASS |
| 10925.250 | --- | 35.09 | 54.00 | 18.91 | H | 3.35 | PASS |
| 14403.750 | --- | 38.20 | 54.00 | 15.80 | H | 9.38 | PASS |
| 14416.500 | 46.14 | --- | 74.00 | 27.86 | H | 9.29 | PASS |
| 17714.250 | 49.78 | --- | 74.00 | 24.22 | H | 14.59 | PASS |
| 17742.000 | --- | 41.50 | 54.00 | 12.50 | H | 15.18 | PASS |



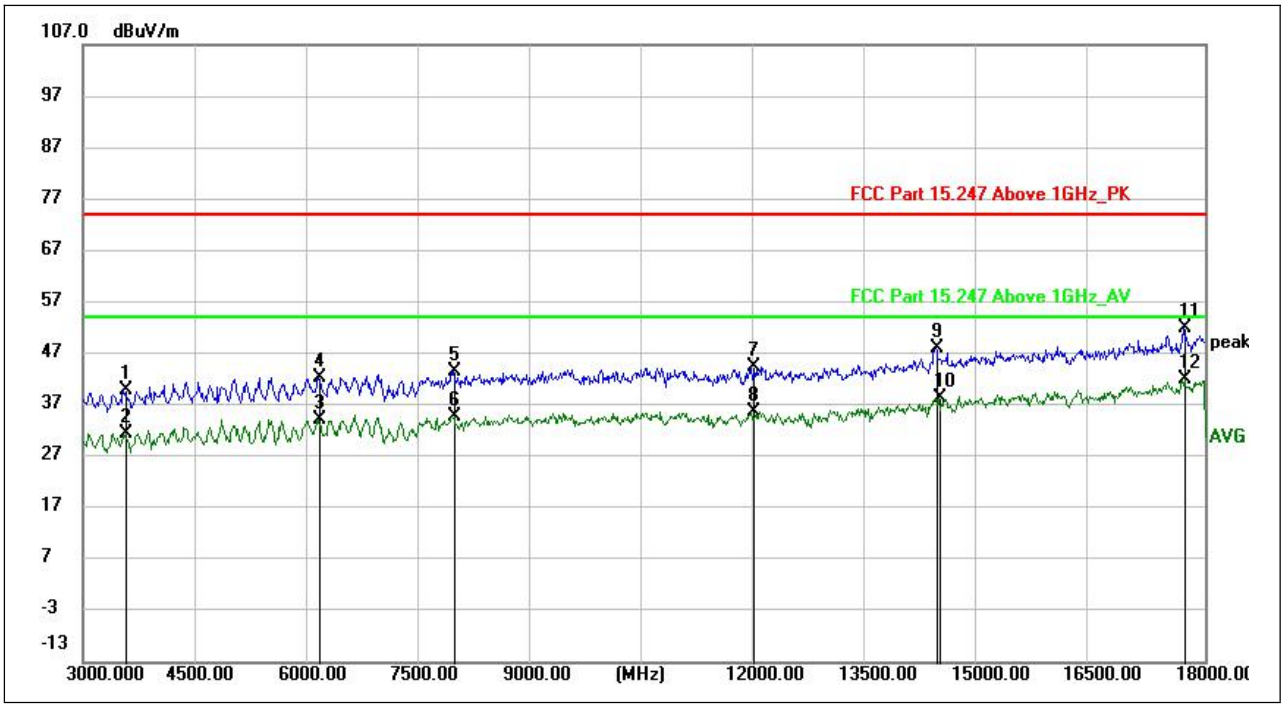

(π/4-DQPSK _2440MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 34.20 | 40.00 | 5.80 | V | 13.90 | PASS |
| 57.0712 | 32.71 | 40.00 | 7.29 | V | 14.54 | PASS |
| 111.6792 | 27.64 | 43.50 | 15.86 | V | 14.25 | PASS |
| 187.2599 | 22.81 | 43.50 | 20.69 | V | 12.80 | PASS |
| 383.9991 | 33.84 | 46.00 | 12.16 | V | 18.74 | PASS |
| 758.4396 | 27.24 | 46.00 | 18.76 | V | 26.18 | PASS |



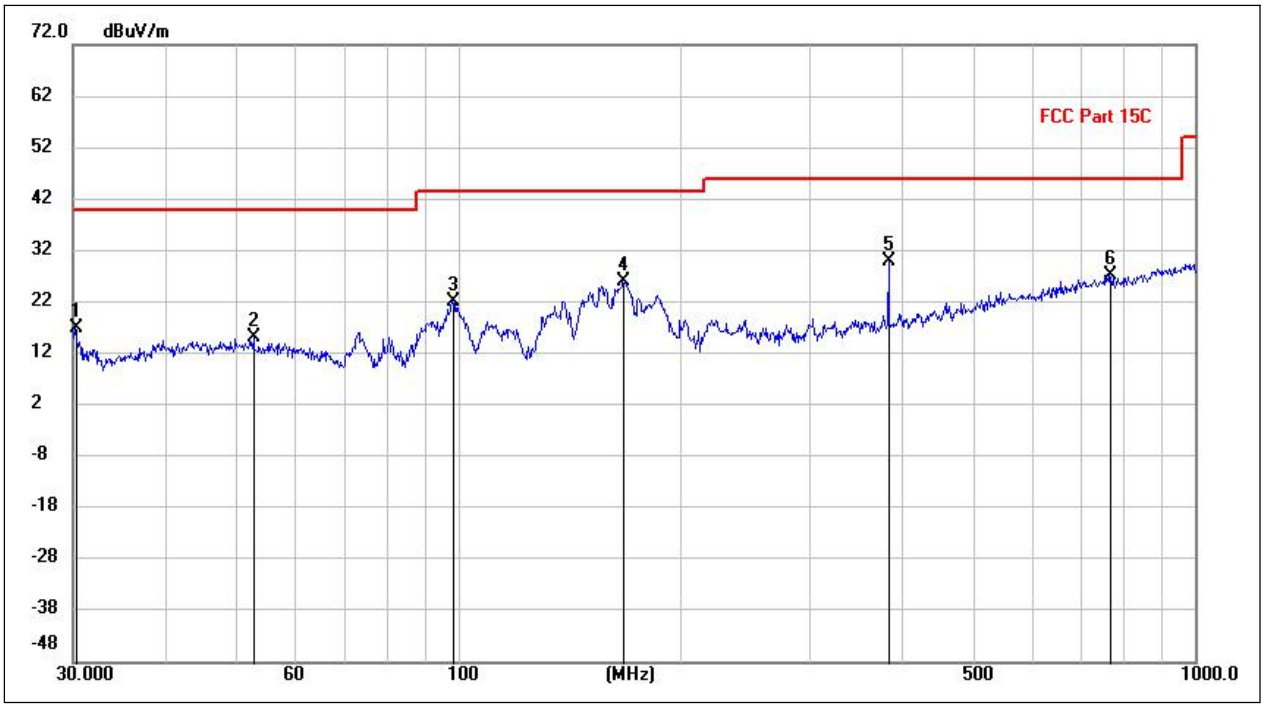

(π/4-DQPSK _2440MHz, Antenna Vertical , 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1013.271 | --- | 28.63 | 54.00 | 25.37 | V | 28.14 | PASS |
| 1018.852 | 40.68 | --- | 74.00 | 33.32 | V | 27.83 | PASS |
| 1230.767 | --- | 28.78 | 54.00 | 25.22 | V | 29.91 | PASS |
| 1234.830 | 41.84 | --- | 74.00 | 32.16 | V | 29.95 | PASS |
| 1402.663 | 43.34 | --- | 74.00 | 30.66 | V | 31.90 | PASS |
| 1402.663 | --- | 30.63 | 54.00 | 23.37 | V | 31.90 | PASS |
| 1797.971 | 47.96 | --- | 74.00 | 26.04 | V | 36.63 | PASS |
| 1797.971 | --- | 35.64 | 54.00 | 18.36 | V | 36.63 | PASS |
| 2217.752 | 50.97 | --- | 74.00 | 23.03 | V | 39.14 | PASS |
| 2222.630 | --- | 38.51 | 54.00 | 15.49 | V | 39.07 | PASS |
| 2589.328 | 55.68 | --- | 74.00 | 18.32 | V | 43.01 | PASS |
| 2589.328 | --- | 43.51 | 54.00 | 10.49 | V | 43.01 | PASS |



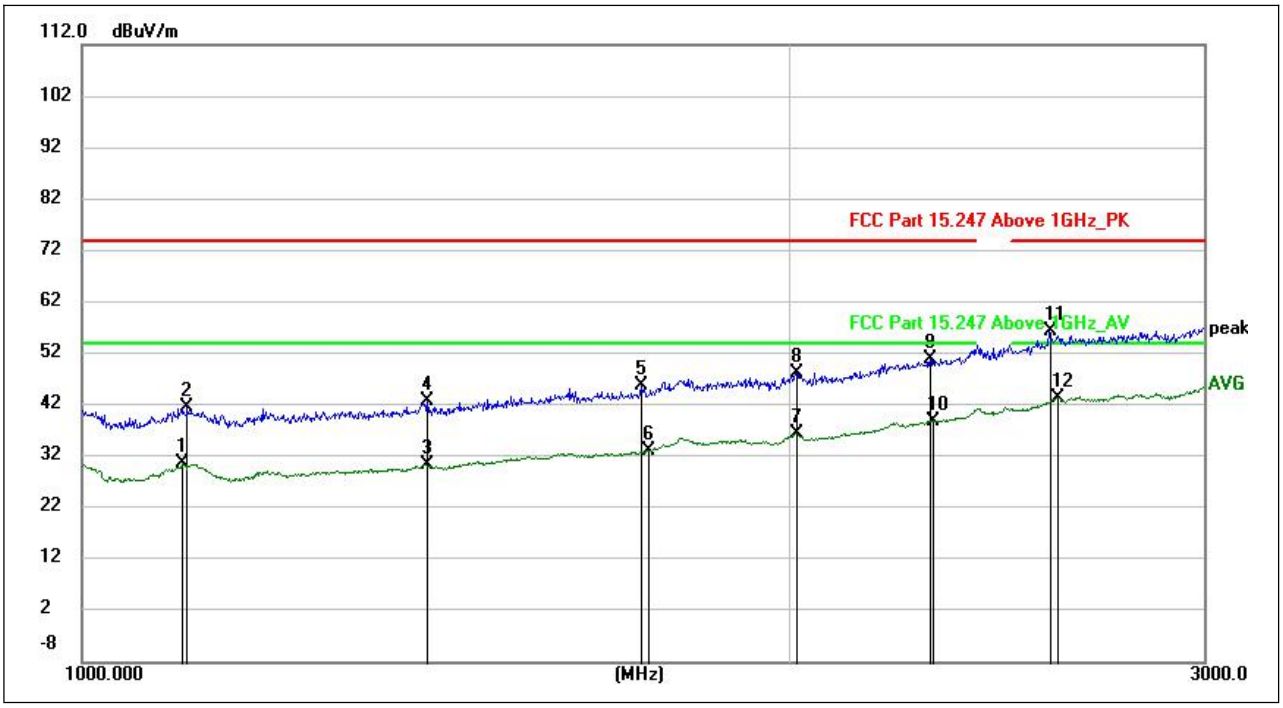

(π/4-DQPSK _2440MHz, Antenna Vertical, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3564.000 | 39.96 | --- | 74.00 | 34.04 | V | -5.72 | PASS |
| 3583.500 | --- | 31.33 | 54.00 | 22.67 | V | -5.69 | PASS |
| 6151.500 | --- | 34.13 | 54.00 | 19.87 | V | -1.51 | PASS |
| 6159.750 | 42.45 | --- | 74.00 | 31.55 | V | -1.47 | PASS |
| 7951.500 | 43.62 | --- | 74.00 | 30.38 | V | 1.47 | PASS |
| 7970.250 | --- | 34.71 | 54.00 | 19.29 | V | 1.22 | PASS |
| 11955.750 | 44.56 | --- | 74.00 | 29.44 | V | 4.32 | PASS |
| 11955.750 | --- | 35.55 | 54.00 | 18.45 | V | 4.32 | PASS |
| 14407.500 | 48.17 | --- | 74.00 | 25.83 | V | 9.45 | PASS |
| 14460.000 | --- | 38.37 | 54.00 | 15.63 | V | 9.06 | PASS |
| 17729.250 | 52.00 | --- | 74.00 | 22.00 | V | 14.91 | PASS |
| 17737.500 | --- | 41.90 | 54.00 | 12.10 | V | 15.08 | PASS |



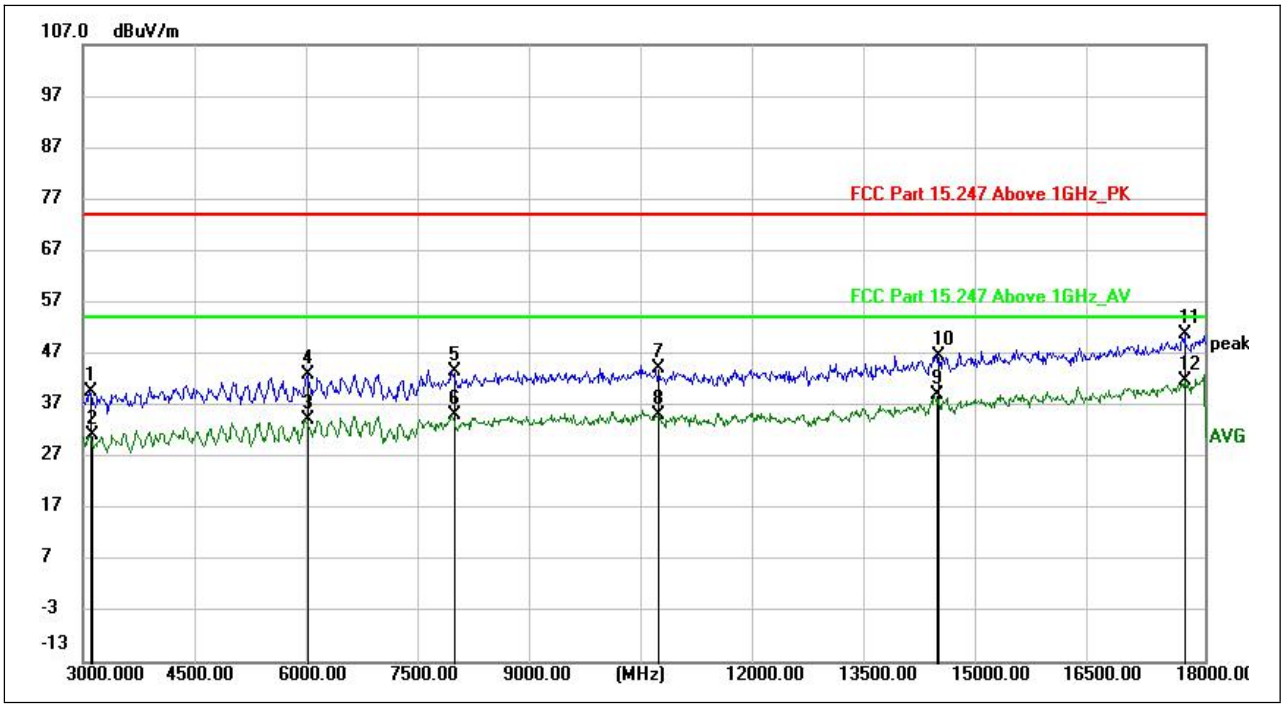

(π/4-DQPSK _2480MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.2695 | 16.86 | 40.00 | 23.14 | H | 13.42 | PASS |
| 52.8711 | 15.15 | 40.00 | 24.85 | H | 15.36 | PASS |
| 98.4521 | 22.11 | 43.50 | 21.39 | H | 13.92 | PASS |
| 167.6478 | 26.13 | 43.50 | 17.37 | H | 11.83 | PASS |
| 383.9991 | 29.93 | 46.00 | 16.07 | H | 18.74 | PASS |
| 768.0745 | 27.35 | 46.00 | 18.65 | H | 26.18 | PASS |



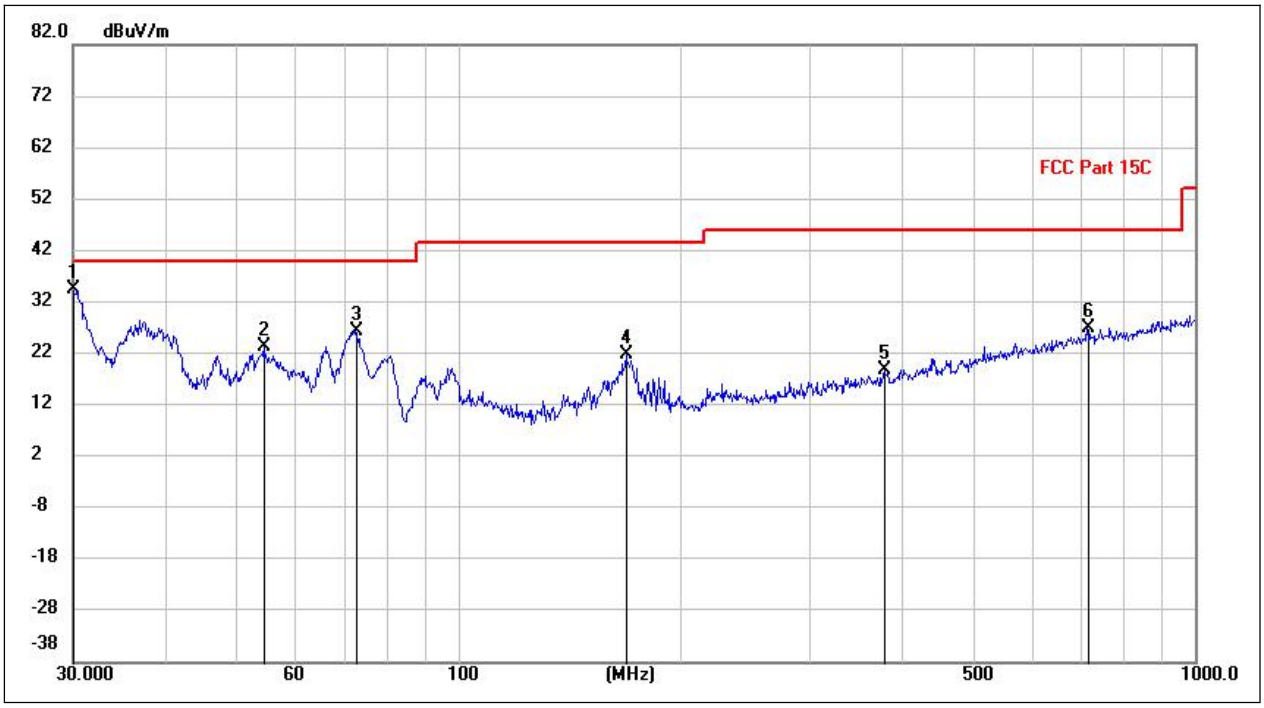

(π/4-DQPSK _2480MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1102.716 | --- | 30.63 | 54.00 | 23.37 | H | 29.05 | PASS |
| 1108.790 | 41.53 | --- | 74.00 | 32.47 | H | 29.00 | PASS |
| 1401.123 | --- | 30.51 | 54.00 | 23.49 | H | 31.96 | PASS |
| 1402.663 | 42.68 | --- | 74.00 | 31.32 | H | 31.90 | PASS |
| 1730.149 | 45.71 | --- | 74.00 | 28.29 | H | 34.26 | PASS |
| 1741.591 | --- | 33.21 | 54.00 | 20.79 | H | 34.49 | PASS |
| 2011.172 | --- | 36.43 | 54.00 | 17.57 | H | 36.99 | PASS |
| 2013.382 | 48.32 | --- | 74.00 | 25.68 | H | 36.87 | PASS |
| 2294.582 | 51.01 | --- | 74.00 | 22.99 | H | 39.66 | PASS |
| 2299.630 | --- | 39.02 | 54.00 | 14.98 | H | 39.77 | PASS |
| 2577.974 | 56.25 | --- | 74.00 | 17.75 | H | 42.40 | PASS |
| 2597.876 | --- | 43.47 | 54.00 | 10.53 | H | 43.56 | PASS |



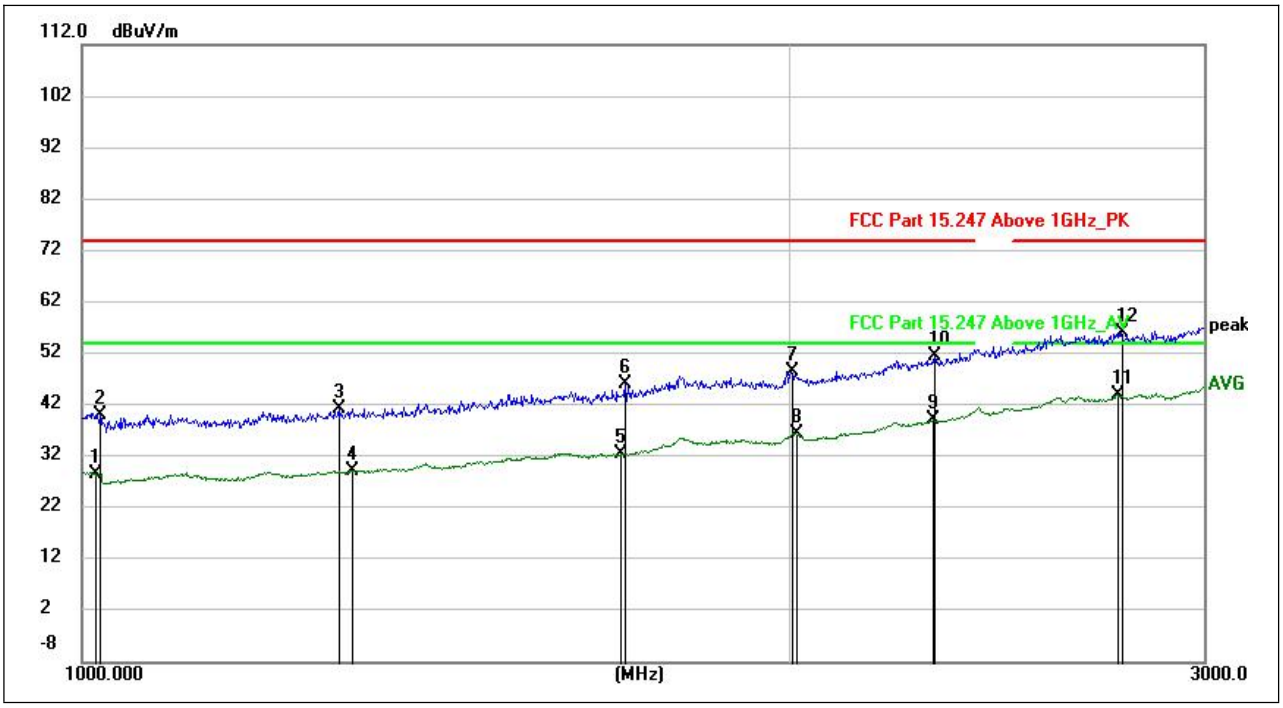

(π/4-DQPSK _2480MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3102.750 | 39.72 | --- | 74.00 | 34.28 | H | -5.79 | PASS |
| 3110.250 | --- | 31.04 | 54.00 | 22.96 | H | -5.69 | PASS |
| 5992.500 | --- | 34.17 | 54.00 | 19.83 | H | -2.77 | PASS |
| 6006.750 | 42.82 | --- | 74.00 | 31.18 | H | -2.78 | PASS |
| 7957.500 | 43.65 | --- | 74.00 | 30.35 | H | 1.32 | PASS |
| 7957.500 | --- | 35.07 | 54.00 | 18.93 | H | 1.32 | PASS |
| 10692.750 | 44.15 | --- | 74.00 | 29.85 | H | 2.62 | PASS |
| 10692.750 | --- | 35.22 | 54.00 | 18.78 | H | 2.62 | PASS |
| 14401.500 | --- | 39.08 | 54.00 | 14.92 | H | 9.40 | PASS |
| 14432.250 | 46.55 | --- | 74.00 | 27.45 | H | 9.06 | PASS |
| 17735.250 | 50.73 | --- | 74.00 | 23.27 | H | 15.03 | PASS |
| 17735.250 | --- | 41.74 | 54.00 | 12.26 | H | 15.03 | PASS |



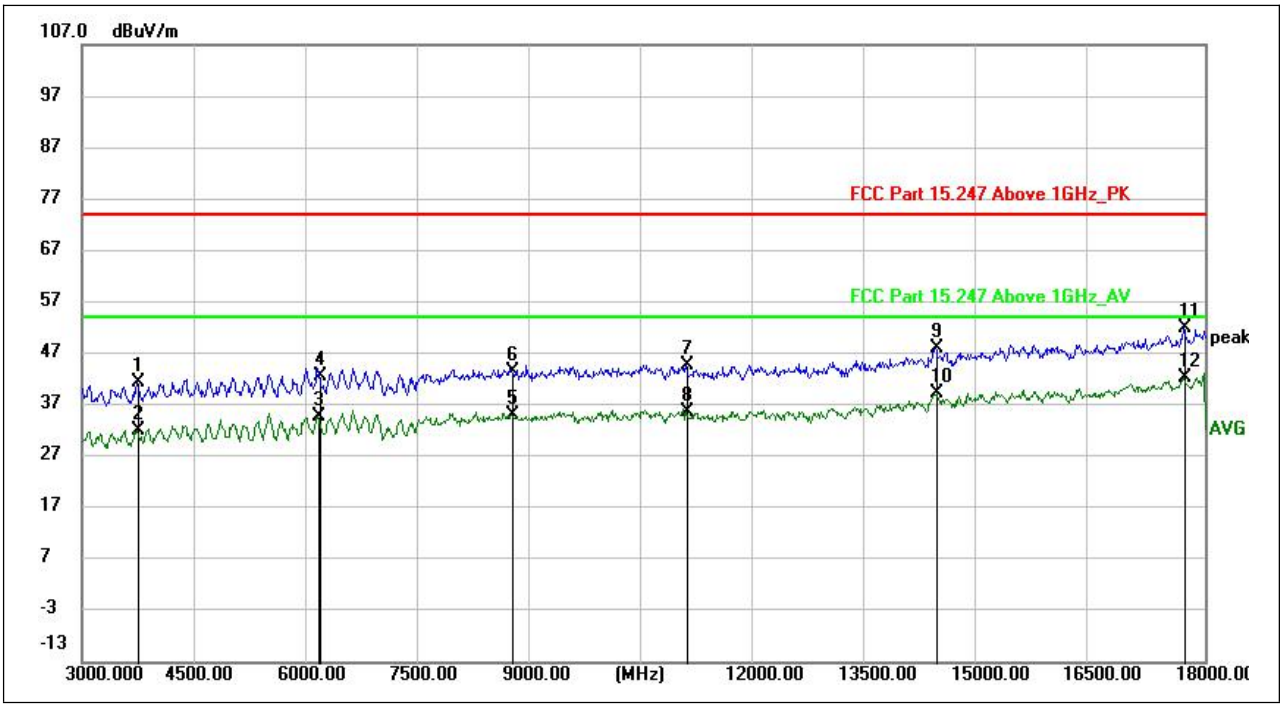

(π/4-DQPSK _2480MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 34.50 | 40.00 | 5.50 | V | 13.90 | PASS |
| 54.4516 | 23.37 | 40.00 | 16.63 | V | 15.25 | PASS |
| 72.5917 | 26.46 | 40.00 | 13.54 | V | 10.42 | PASS |
| 169.0054 | 21.74 | 43.50 | 21.76 | V | 12.23 | PASS |
| 378.5843 | 18.81 | 46.00 | 27.19 | V | 18.97 | PASS |
| 714.1734 | 27.01 | 46.00 | 18.99 | V | 25.00 | PASS |




(π/4-DQPSK _2480MHz, Antenna Vertical , 1GHz to 3GHz)

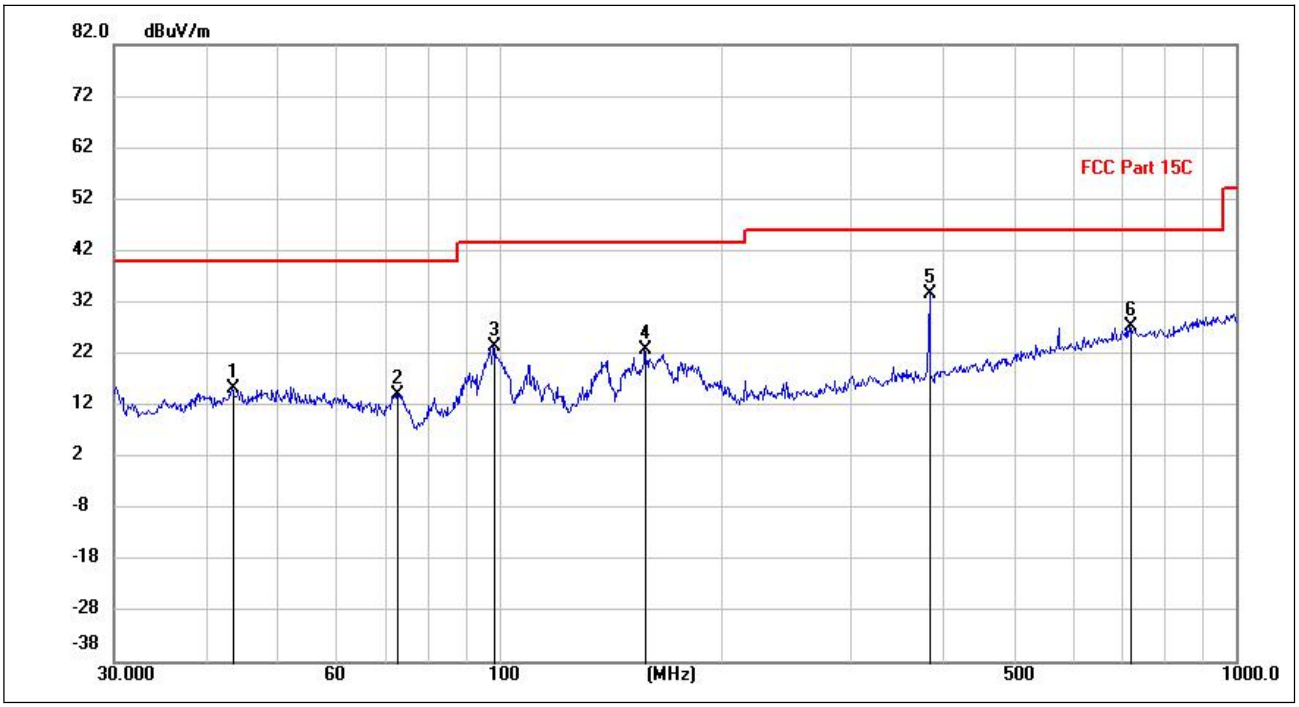
| Frequency (MHz) | QuasiPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|---|---|---|---|---|---|---|
| 1014.384 | --- | 28.65 | 54.00 | 25.35 | V | 28.08 |
| 1017.733 | 40.21 | --- | 74.00 | 33.79 | V | 27.89 |
| 1286.059 | 41.19 | --- | 74.00 | 32.81 | V | 30.66 |
| 1301.695 | --- | 29.36 | 54.00 | 24.64 | V | 30.73 |
| 1694.409 | --- | 32.64 | 54.00 | 21.36 | V | 33.84 |
| 1701.871 | 46.12 | --- | 74.00 | 27.88 | V | 33.88 |
| 2002.353 | 48.40 | --- | 74.00 | 25.60 | V | 37.26 |
| 2011.172 | --- | 36.56 | 54.00 | 17.44 | V | 36.99 |
| 2302.157 | --- | 39.06 | 54.00 | 14.94 | V | 39.73 |
| 2304.688 | 51.50 | --- | 74.00 | 22.50 | V | 39.70 |
| 2759.688 | --- | 43.94 | 54.00 | 10.06 | V | 43.66 |
| 2765.759 | 56.13 | --- | 74.00 | 17.87 | V | 43.45 |




(π/4-DQPSK _2480MHz, Antenna Vertical, 3GHz to 18GHz)

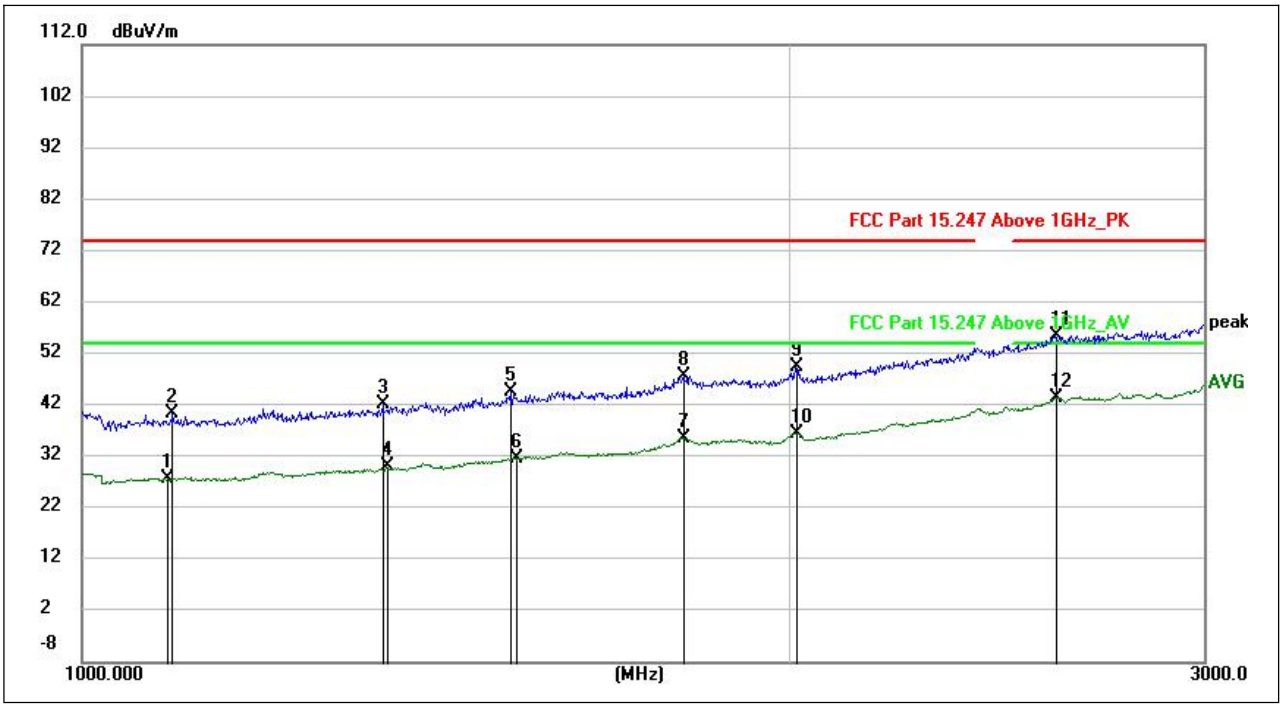
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3750.000 | 41.56 | --- | 74.00 | 32.44 | V | -5.07 | PASS |
| 3750.000 | --- | 31.97 | 54.00 | 22.03 | V | -5.07 | PASS |
| 6162.000 | --- | 34.74 | 54.00 | 19.26 | V | -1.45 | PASS |
| 6179.250 | 42.64 | --- | 74.00 | 31.36 | V | -1.40 | PASS |
| 8748.000 | --- | 35.21 | 54.00 | 18.79 | V | 1.44 | PASS |
| 8751.000 | 43.62 | --- | 74.00 | 30.38 | V | 1.44 | PASS |
| 11073.000 | 44.68 | --- | 74.00 | 29.32 | V | 3.21 | PASS |
| 11073.000 | --- | 35.59 | 54.00 | 18.41 | V | 3.21 | PASS |
| 14418.000 | 48.17 | --- | 74.00 | 25.83 | V | 9.50 | PASS |
| 14420.250 | --- | 39.17 | 54.00 | 14.83 | V | 9.51 | PASS |
| 17733.750 | 52.00 | --- | 74.00 | 22.00 | V | 15.00 | PASS |
| 17733.750 | --- | 42.24 | 54.00 | 11.76 | V | 15.00 | PASS |

**8-DPSK Test mode**



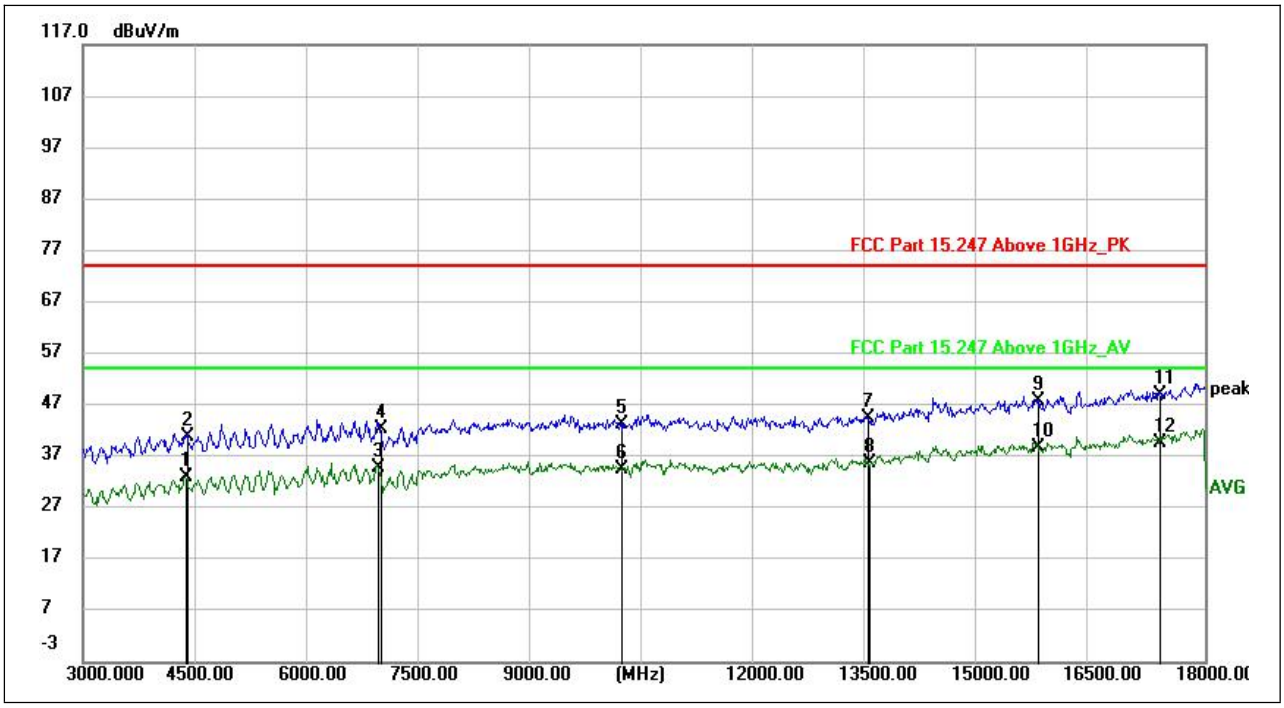

(8-DPSK _2402MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 43.4905 | 15.10 | 40.00 | 24.90 | H | 15.25 | PASS |
| 72.7573 | 14.11 | 40.00 | 25.89 | H | 10.37 | PASS |
| 98.3313 | 23.45 | 43.50 | 20.05 | H | 13.82 | PASS |
| 158.0569 | 22.73 | 43.50 | 20.77 | H | 11.58 | PASS |
| 383.9991 | 33.53 | 46.00 | 12.47 | H | 18.74 | PASS |
| 717.8138 | 27.25 | 46.00 | 18.75 | H | 25.00 | PASS |



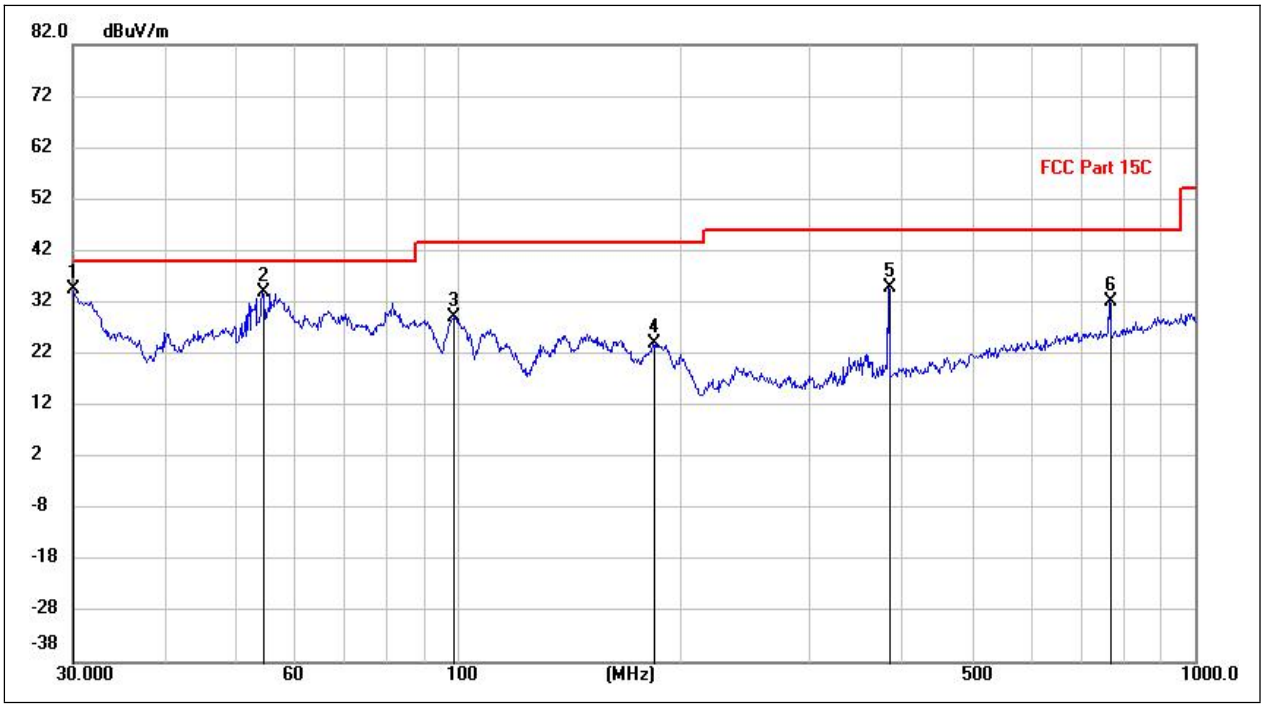

(8-DPSK _2402MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1087.079 | --- | 27.77 | 54.00 | 26.23 | H | 28.97 | PASS |
| 1093.067 | 40.36 | --- | 74.00 | 33.64 | H | 29.07 | PASS |
| 1342.358 | 42.22 | --- | 74.00 | 31.78 | H | 30.94 | PASS |
| 1346.790 | --- | 30.04 | 54.00 | 23.96 | H | 31.02 | PASS |
| 1521.459 | 44.71 | --- | 74.00 | 29.29 | H | 32.92 | PASS |
| 1528.160 | --- | 31.71 | 54.00 | 22.29 | H | 32.95 | PASS |
| 1799.948 | --- | 35.63 | 54.00 | 18.37 | H | 36.78 | PASS |
| 1801.926 | 47.51 | --- | 74.00 | 26.49 | H | 36.65 | PASS |
| 2011.172 | 49.42 | --- | 74.00 | 24.58 | H | 36.99 | PASS |
| 2011.172 | --- | 36.56 | 54.00 | 17.44 | H | 36.99 | PASS |
| 2592.174 | 55.49 | --- | 74.00 | 18.51 | H | 43.19 | PASS |
| 2592.174 | --- | 43.44 | 54.00 | 10.56 | H | 43.19 | PASS |



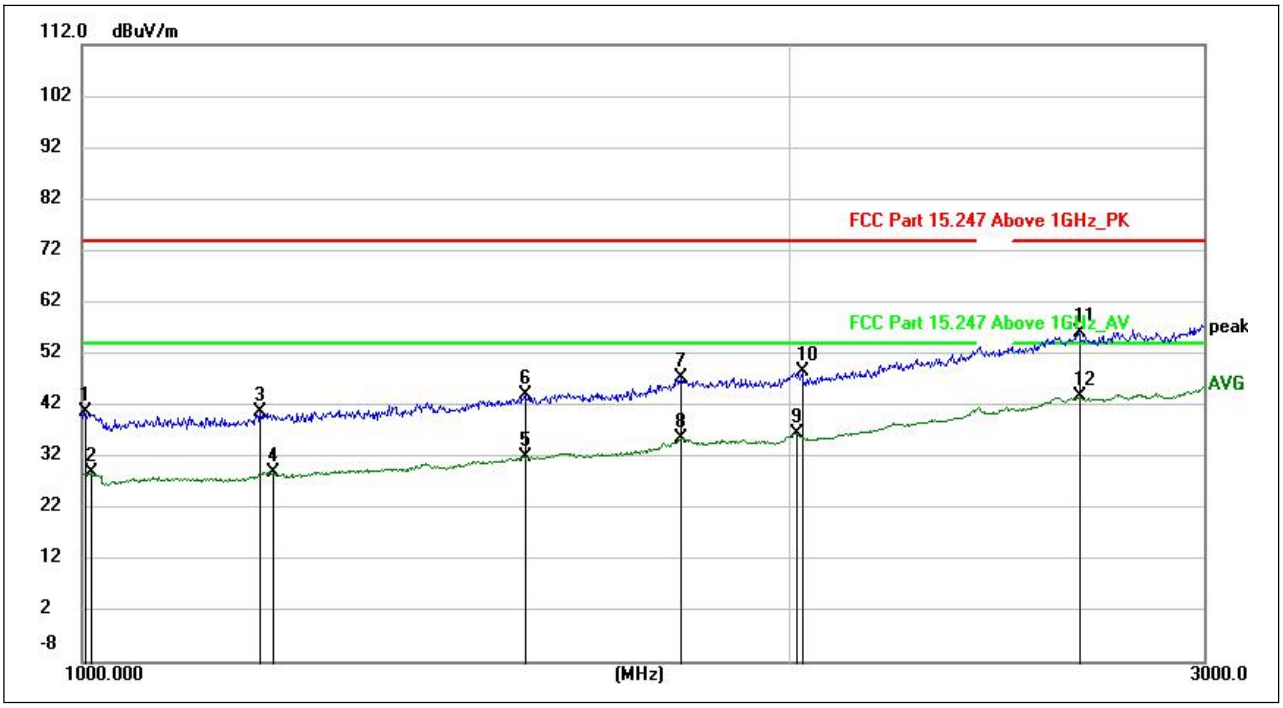

(8-DPSK _2402MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4380.000 | --- | 33.14 | 54.00 | 20.86 | H | -3.45 | PASS |
| 4392.000 | 40.99 | --- | 74.00 | 33.01 | H | -3.55 | PASS |
| 6957.750 | --- | 34.71 | 54.00 | 19.29 | H | -0.59 | PASS |
| 6979.500 | 42.28 | --- | 74.00 | 31.72 | H | -0.73 | PASS |
| 10192.500 | 43.19 | --- | 74.00 | 30.81 | H | 1.95 | PASS |
| 10203.000 | --- | 34.55 | 54.00 | 19.45 | H | 1.93 | PASS |
| 13493.250 | 44.44 | --- | 74.00 | 29.56 | H | 6.52 | PASS |
| 13514.250 | --- | 35.88 | 54.00 | 18.12 | H | 6.46 | PASS |
| 15756.000 | 47.72 | --- | 74.00 | 26.28 | H | 10.80 | PASS |
| 15768.750 | --- | 38.84 | 54.00 | 15.16 | H | 10.53 | PASS |
| 17399.250 | 49.04 | --- | 74.00 | 24.96 | H | 13.36 | PASS |
| 17399.250 | --- | 39.74 | 54.00 | 14.26 | H | 13.36 | PASS |



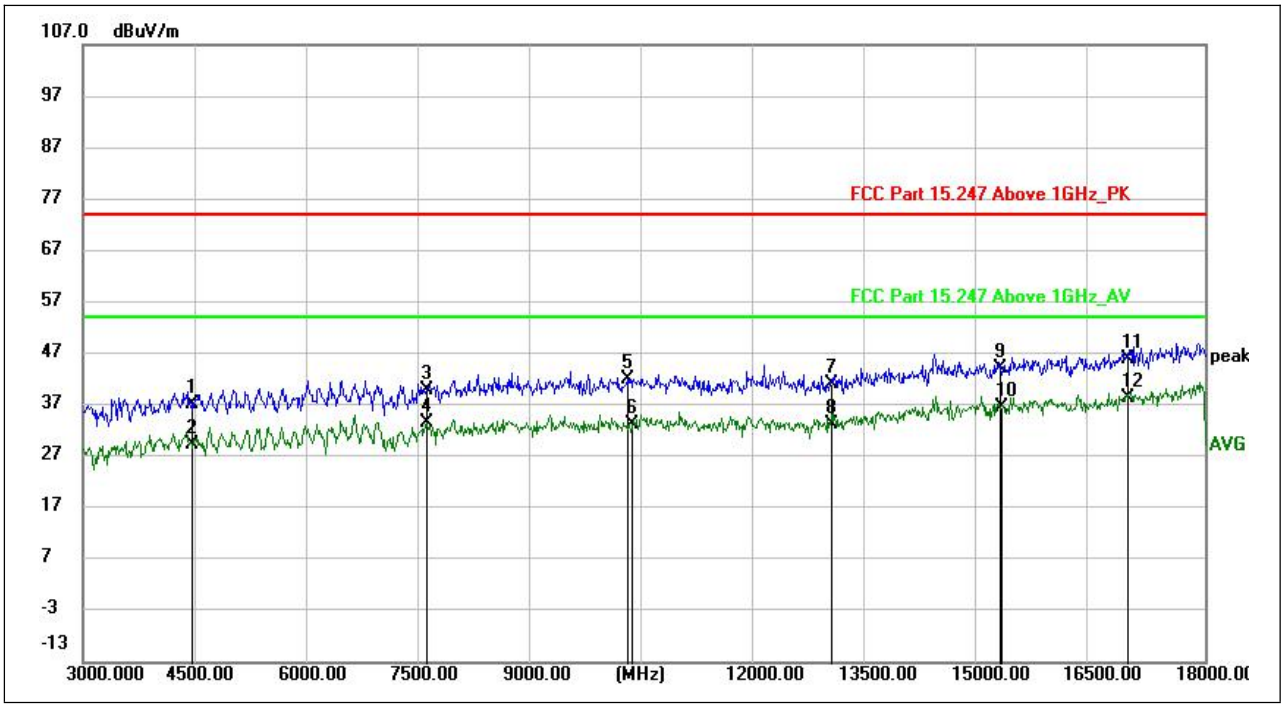

(8-DPSK _2402MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 34.66 | 40.00 | 5.34 | V | 13.90 | PASS |
| 54.3276 | 33.82 | 40.00 | 6.18 | V | 15.27 | PASS |
| 98.6421 | 29.14 | 43.50 | 14.36 | V | 14.08 | PASS |
| 184.3928 | 23.97 | 43.50 | 19.53 | V | 12.22 | PASS |
| 383.9991 | 34.89 | 46.00 | 11.11 | V | 18.74 | PASS |
| 768.0745 | 31.97 | 46.00 | 14.03 | V | 26.18 | PASS |



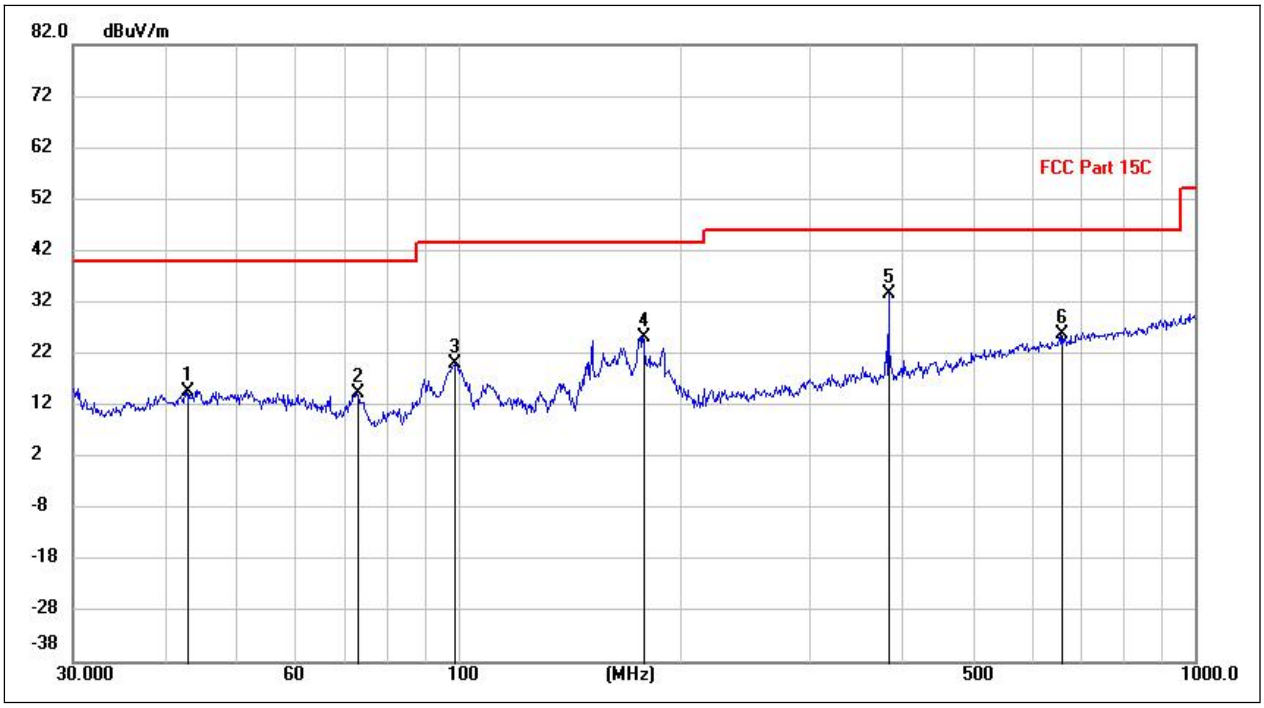

(8-DPSK _2402MHz, Antenna Vertical , 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1002.200 | 40.59 | --- | 74.00 | 33.41 | V | 28.57 | PASS |
| 1008.828 | --- | 28.92 | 54.00 | 25.08 | V | 28.39 | PASS |
| 1190.864 | 40.64 | --- | 74.00 | 33.36 | V | 30.08 | PASS |
| 1205.343 | --- | 29.07 | 54.00 | 24.93 | V | 30.43 | PASS |
| 1541.650 | --- | 32.05 | 54.00 | 21.95 | V | 33.21 | PASS |
| 1543.345 | 44.10 | --- | 74.00 | 29.90 | V | 33.24 | PASS |
| 1797.971 | 47.40 | --- | 74.00 | 26.60 | V | 36.63 | PASS |
| 1797.971 | --- | 35.62 | 54.00 | 18.38 | V | 36.63 | PASS |
| 2013.382 | --- | 36.51 | 54.00 | 17.49 | V | 36.87 | PASS |
| 2024.472 | 48.42 | --- | 74.00 | 25.58 | V | 36.50 | PASS |
| 2652.673 | 56.06 | --- | 74.00 | 17.94 | V | 43.29 | PASS |
| 2655.589 | --- | 43.65 | 54.00 | 10.35 | V | 43.25 | PASS |



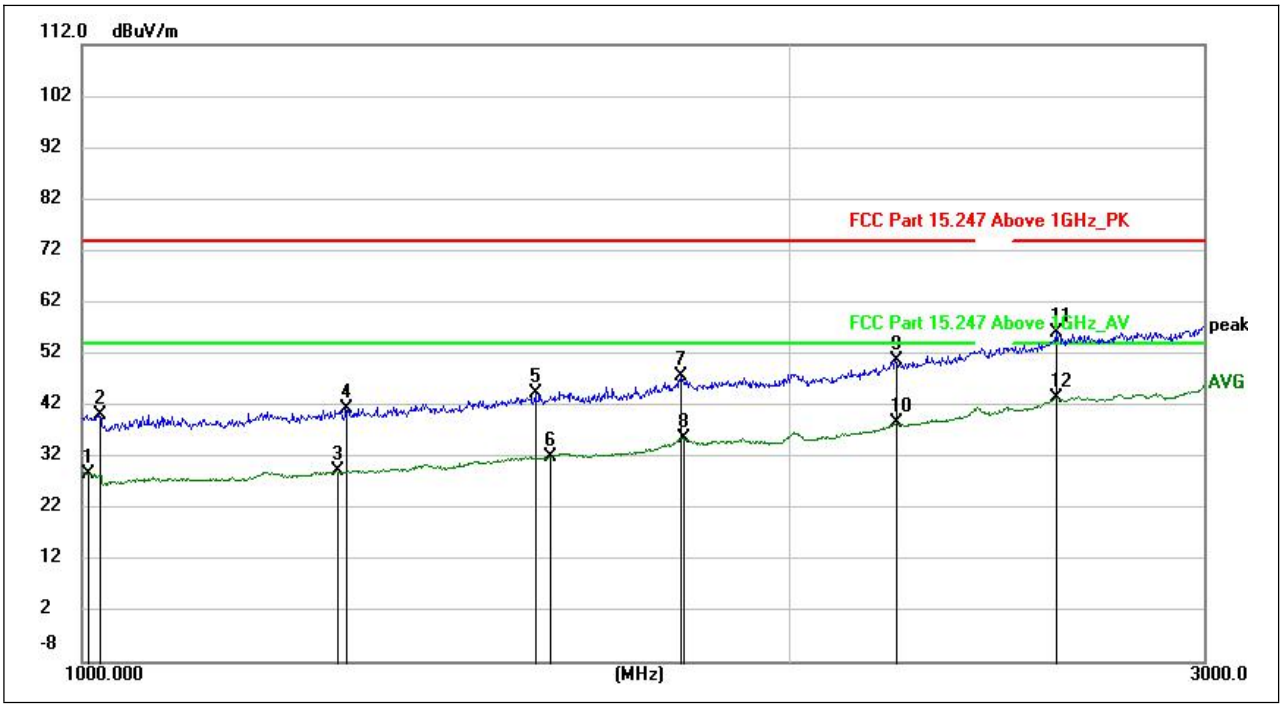

(8-DPSK _2402MHz, Antenna Vertical, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 4458.000 | 37.34 | --- | 74.00 | 36.66 | V | -3.67 | PASS |
| 4458.000 | --- | 29.49 | 54.00 | 24.51 | V | -3.67 | PASS |
| 7602.750 | 39.89 | --- | 74.00 | 34.11 | V | 0.27 | PASS |
| 7602.750 | --- | 33.45 | 54.00 | 20.55 | V | 0.27 | PASS |
| 10286.250 | 42.09 | --- | 74.00 | 31.91 | V | 2.24 | PASS |
| 10328.250 | --- | 33.17 | 54.00 | 20.83 | V | 1.98 | PASS |
| 13004.250 | 41.07 | --- | 74.00 | 32.93 | V | 5.75 | PASS |
| 13004.250 | --- | 33.32 | 54.00 | 20.68 | V | 5.75 | PASS |
| 15243.750 | 44.20 | --- | 74.00 | 29.80 | V | 9.83 | PASS |
| 15278.250 | --- | 36.67 | 54.00 | 17.33 | V | 9.91 | PASS |
| 16977.750 | 46.08 | --- | 74.00 | 27.92 | V | 12.79 | PASS |
| 16977.750 | --- | 38.39 | 54.00 | 15.61 | V | 12.79 | PASS |



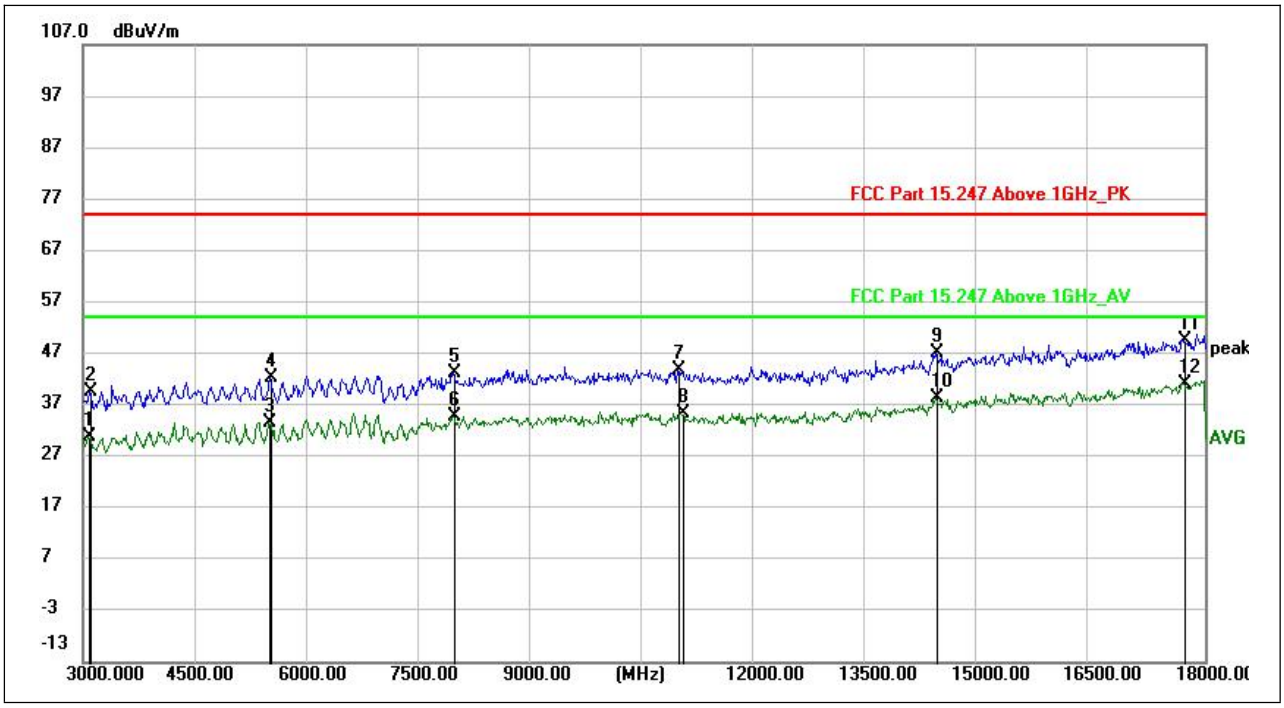

(8-DPSK _2440MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 42.8547 | 14.57 | 40.00 | 25.43 | H | 15.22 | PASS |
| 72.9105 | 14.33 | 40.00 | 25.67 | H | 10.34 | PASS |
| 99.0754 | 19.92 | 43.50 | 23.58 | H | 14.43 | PASS |
| 178.3202 | 25.30 | 43.50 | 18.20 | H | 12.33 | PASS |
| 383.9991 | 33.49 | 46.00 | 12.51 | H | 18.74 | PASS |
| 659.5296 | 25.90 | 46.00 | 20.10 | H | 24.34 | PASS |



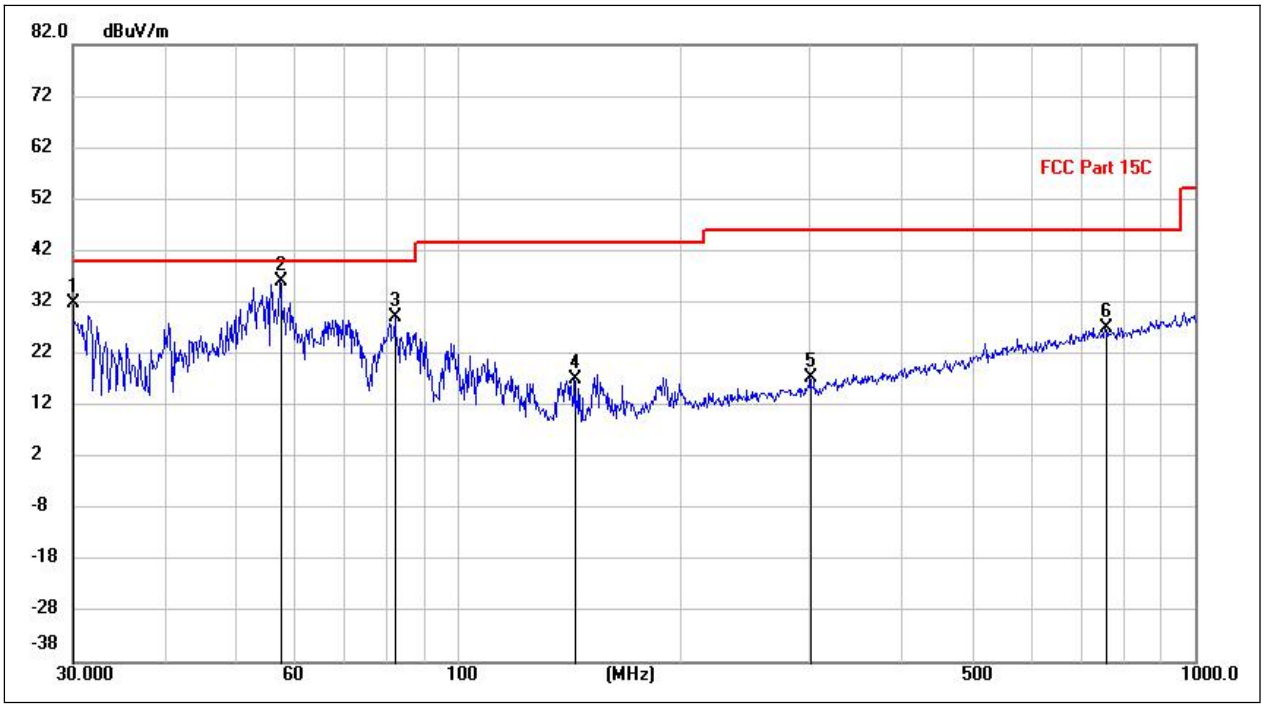

(8-DPSK _2440MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1006.613 | --- | 28.73 | 54.00 | 25.27 | H | 28.46 | PASS |
| 1016.616 | 40.19 | --- | 74.00 | 33.81 | H | 27.96 | PASS |
| 1283.236 | --- | 29.20 | 54.00 | 24.80 | H | 30.67 | PASS |
| 1294.564 | 41.20 | --- | 74.00 | 32.80 | H | 30.65 | PASS |
| 1558.680 | 44.23 | --- | 74.00 | 29.77 | H | 33.23 | PASS |
| 1579.365 | --- | 31.96 | 54.00 | 22.04 | H | 33.31 | PASS |
| 1797.971 | 47.57 | --- | 74.00 | 26.43 | H | 36.63 | PASS |
| 1801.926 | --- | 35.66 | 54.00 | 18.34 | H | 36.65 | PASS |
| 2217.752 | 50.63 | --- | 74.00 | 23.37 | H | 39.14 | PASS |
| 2220.189 | --- | 38.45 | 54.00 | 15.55 | H | 39.11 | PASS |
| 2595.023 | 56.09 | --- | 74.00 | 17.91 | H | 43.36 | PASS |
| 2595.023 | --- | 43.48 | 54.00 | 10.52 | H | 43.36 | PASS |



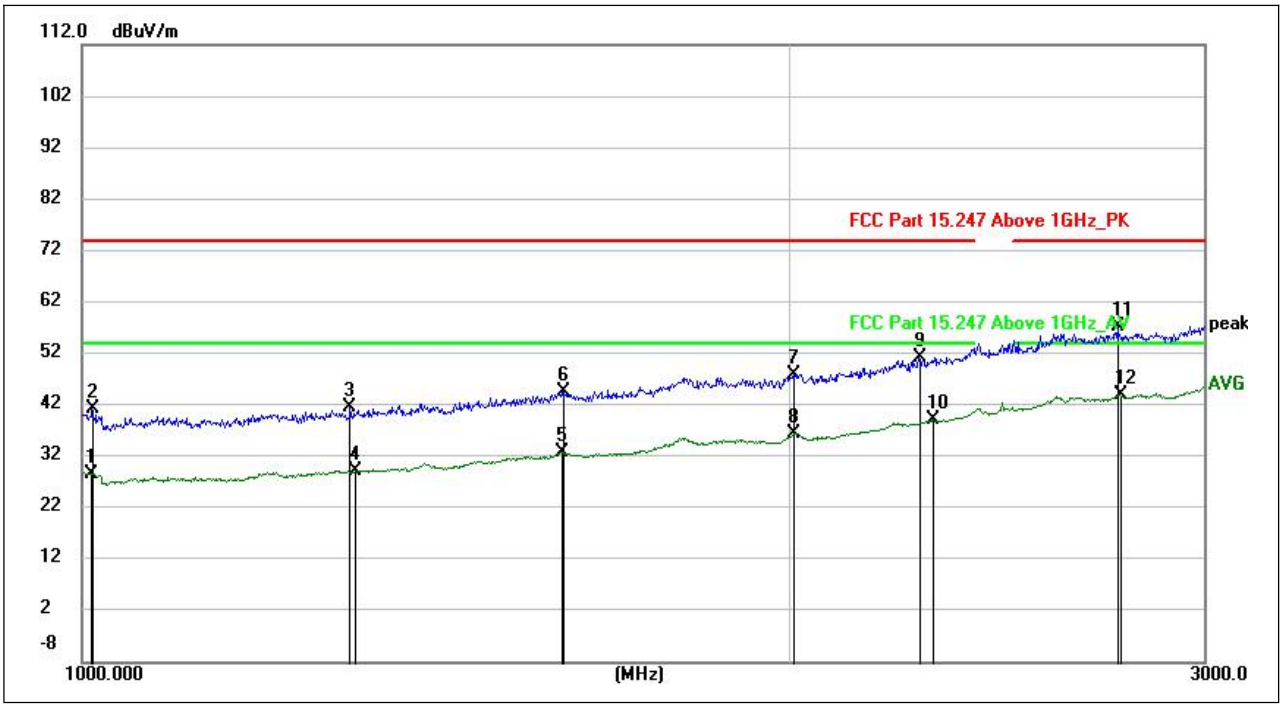

(8-DPSK _2440MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3082.500 | --- | 30.76 | 54.00 | 23.24 | H | -6.21 | PASS |
| 3103.500 | 39.54 | --- | 74.00 | 34.46 | H | -5.78 | PASS |
| 5504.250 | --- | 33.55 | 54.00 | 20.45 | H | -3.13 | PASS |
| 5517.000 | 42.28 | --- | 74.00 | 31.72 | H | -2.92 | PASS |
| 7961.250 | 43.34 | --- | 74.00 | 30.66 | H | 1.24 | PASS |
| 7961.250 | --- | 34.66 | 54.00 | 19.34 | H | 1.24 | PASS |
| 10968.750 | 43.78 | --- | 74.00 | 30.22 | H | 3.33 | PASS |
| 11010.750 | --- | 35.38 | 54.00 | 18.62 | H | 3.46 | PASS |
| 14406.000 | 47.26 | --- | 74.00 | 26.74 | H | 9.37 | PASS |
| 14406.000 | --- | 38.43 | 54.00 | 15.57 | H | 9.37 | PASS |
| 17715.750 | 49.60 | --- | 74.00 | 24.40 | H | 14.62 | PASS |
| 17715.750 | --- | 41.15 | 54.00 | 12.85 | H | 14.62 | PASS |



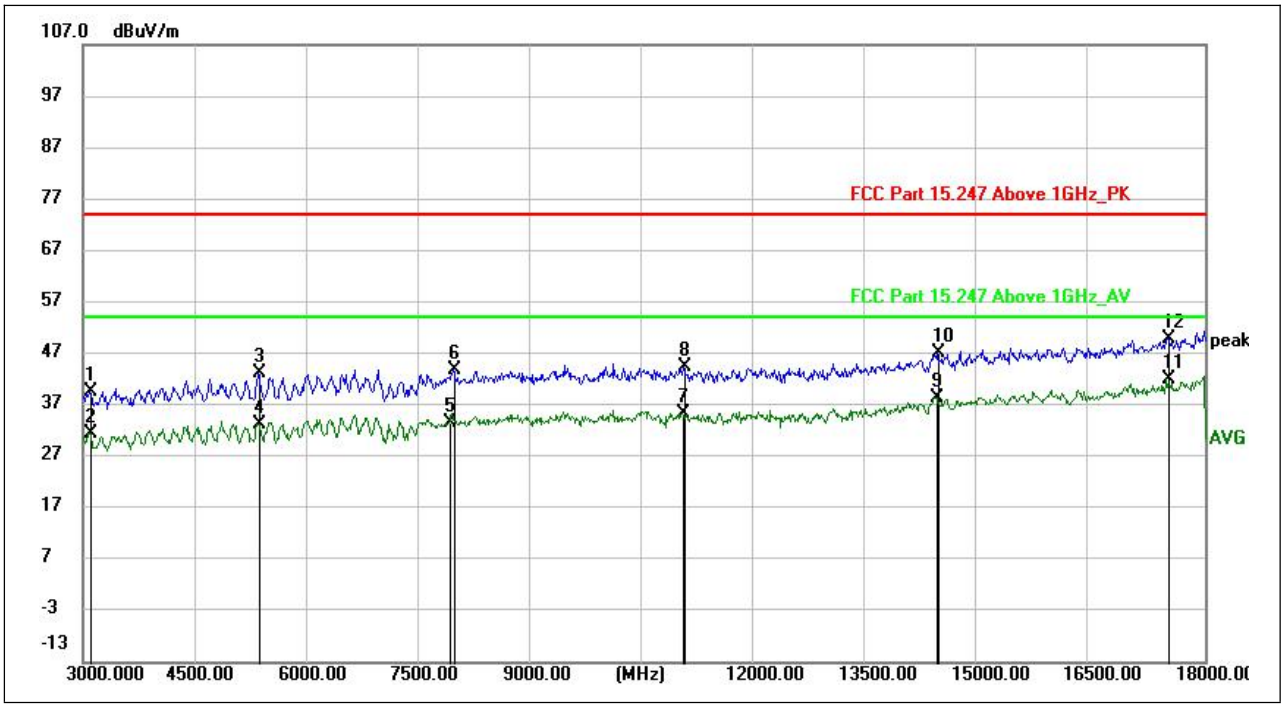

(8-DPSK _2440MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 31.67 | 40.00 | 8.33 | V | 13.90 | PASS |
| 57.5031 | 35.88 | 40.00 | 4.12 | V | 14.42 | PASS |
| 82.1425 | 29.01 | 40.00 | 10.99 | V | 9.97 | PASS |
| 143.8547 | 16.92 | 43.50 | 26.58 | V | 10.66 | PASS |
| 300.4199 | 17.21 | 46.00 | 28.79 | V | 17.44 | PASS |
| 757.9079 | 27.07 | 46.00 | 18.93 | V | 26.17 | PASS |



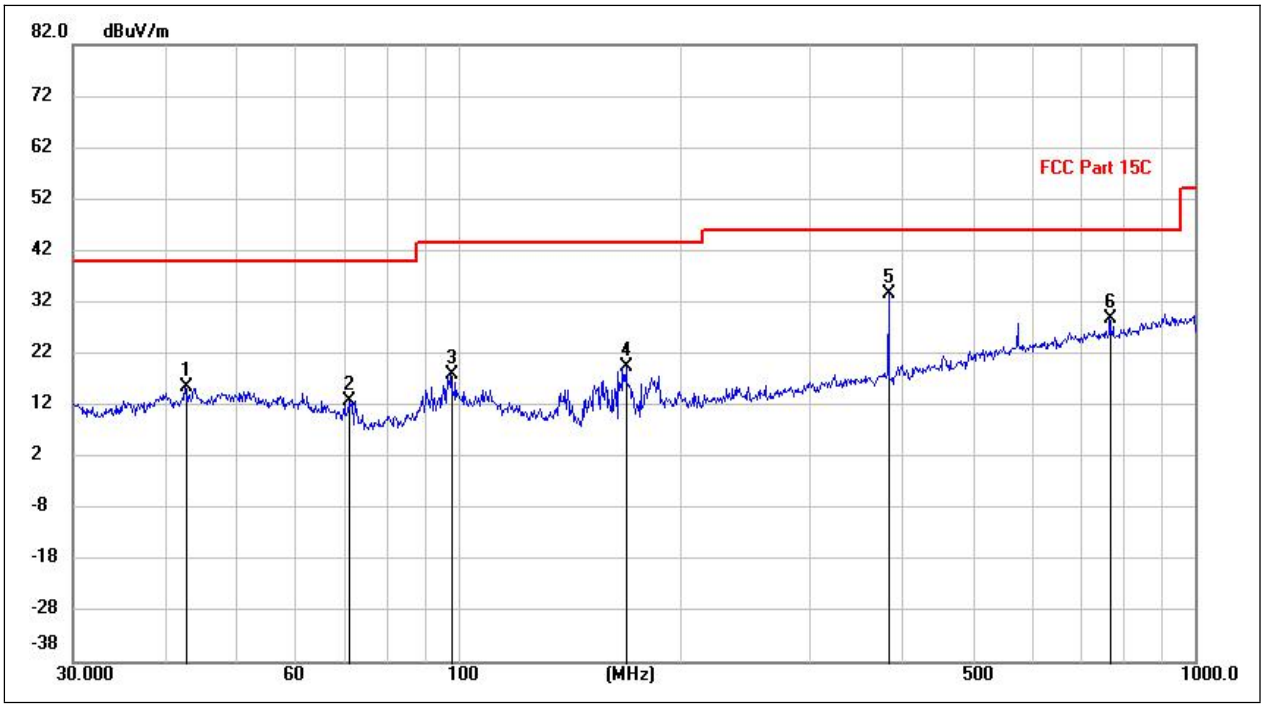

(8-DPSK _2440MHz, Antenna Vertical , 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1007.720 | --- | 28.77 | 54.00 | 25.23 | V | 28.42 | PASS |
| 1009.937 | 41.27 | --- | 74.00 | 32.73 | V | 28.33 | PASS |
| 1300.265 | 41.73 | --- | 74.00 | 32.27 | V | 30.72 | PASS |
| 1307.427 | --- | 29.31 | 54.00 | 24.69 | V | 30.77 | PASS |
| 1598.567 | --- | 32.87 | 54.00 | 21.13 | V | 34.17 | PASS |
| 1600.324 | 44.76 | --- | 74.00 | 29.24 | V | 34.23 | PASS |
| 2006.757 | 48.06 | --- | 74.00 | 25.94 | V | 37.23 | PASS |
| 2008.963 | --- | 36.52 | 54.00 | 17.48 | V | 37.11 | PASS |
| 2269.512 | 51.27 | --- | 74.00 | 22.73 | V | 39.23 | PASS |
| 2299.630 | --- | 39.10 | 54.00 | 14.90 | V | 39.77 | PASS |
| 2756.658 | 57.37 | --- | 74.00 | 16.63 | V | 43.77 | PASS |
| 2762.722 | --- | 43.97 | 54.00 | 10.03 | V | 43.56 | PASS |



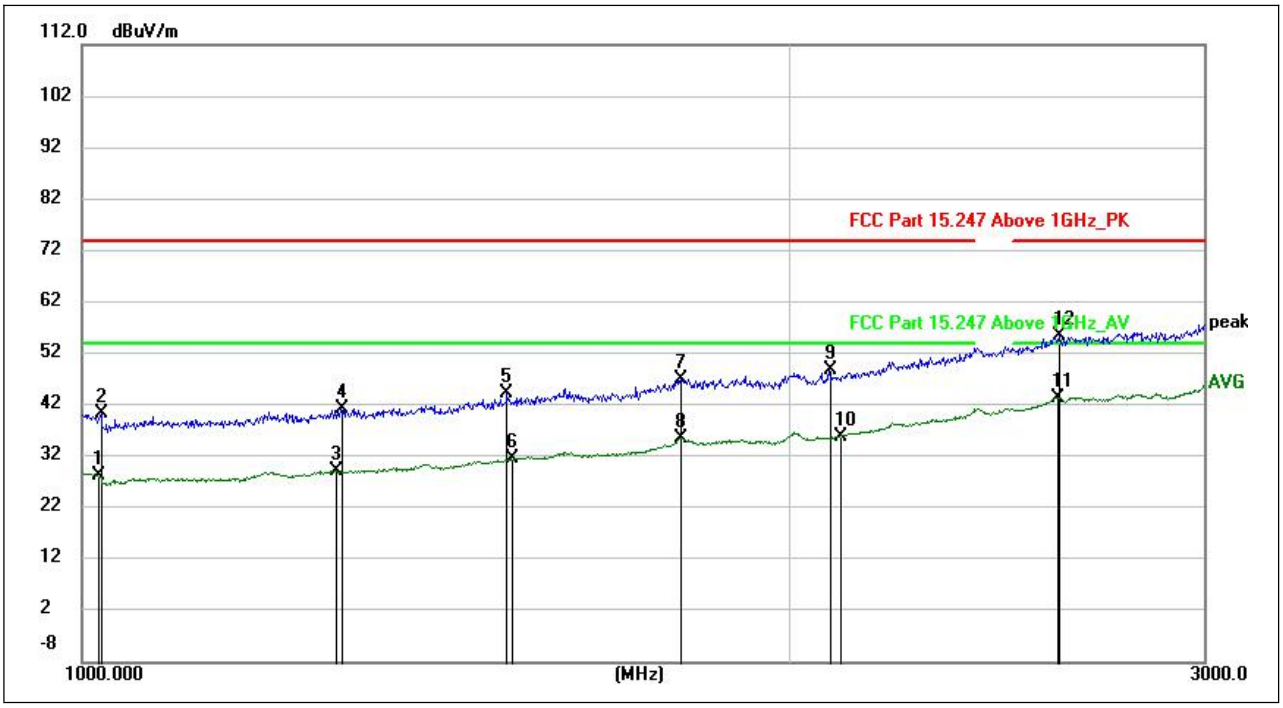

(8-DPSK _2440MHz, Antenna Vertical, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3096.750 | 39.56 | --- | 74.00 | 34.44 | V | -5.92 | PASS |
| 3096.750 | --- | 31.59 | 54.00 | 22.41 | V | -5.92 | PASS |
| 5350.500 | 43.12 | --- | 74.00 | 30.88 | V | -2.55 | PASS |
| 5350.500 | --- | 33.39 | 54.00 | 20.61 | V | -2.55 | PASS |
| 7903.500 | --- | 33.64 | 54.00 | 20.36 | V | 0.51 | PASS |
| 7969.500 | 43.70 | --- | 74.00 | 30.30 | V | 1.24 | PASS |
| 11023.500 | --- | 35.53 | 54.00 | 18.47 | V | 3.28 | PASS |
| 11036.250 | 44.32 | --- | 74.00 | 29.68 | V | 3.28 | PASS |
| 14412.750 | --- | 38.49 | 54.00 | 15.51 | V | 9.47 | PASS |
| 14433.000 | 47.01 | --- | 74.00 | 26.99 | V | 9.43 | PASS |
| 17511.750 | --- | 41.97 | 54.00 | 12.03 | V | 14.96 | PASS |
| 17517.750 | 49.76 | --- | 74.00 | 24.24 | V | 14.82 | PASS |



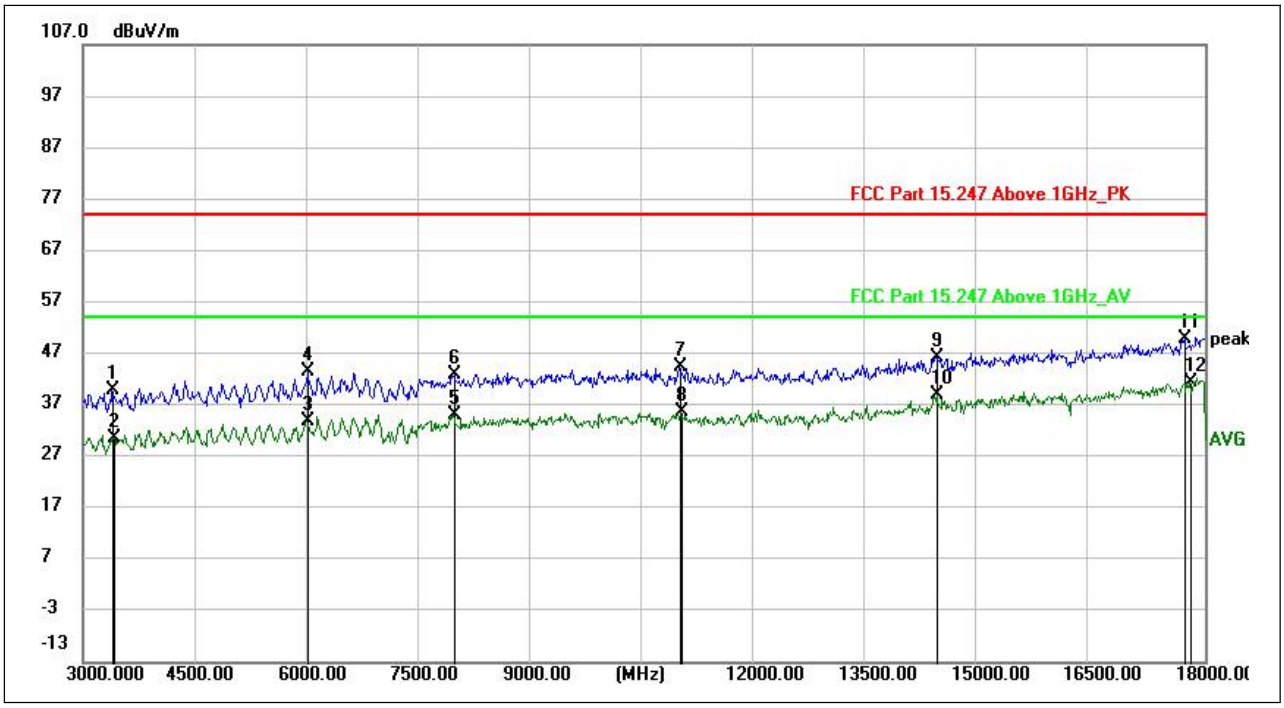

(8-DPSK _2480MHz, Antenna Horizontal, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 42.6074 | 15.41 | 40.00 | 24.59 | H | 15.18 | PASS |
| 71.0928 | 12.92 | 40.00 | 27.08 | H | 11.27 | PASS |
| 97.8326 | 17.79 | 43.50 | 25.71 | H | 13.52 | PASS |
| 169.1239 | 19.30 | 43.50 | 24.20 | H | 12.26 | PASS |
| 383.9991 | 33.67 | 46.00 | 12.33 | H | 18.74 | PASS |
| 768.0745 | 28.75 | 46.00 | 17.25 | H | 26.18 | PASS |



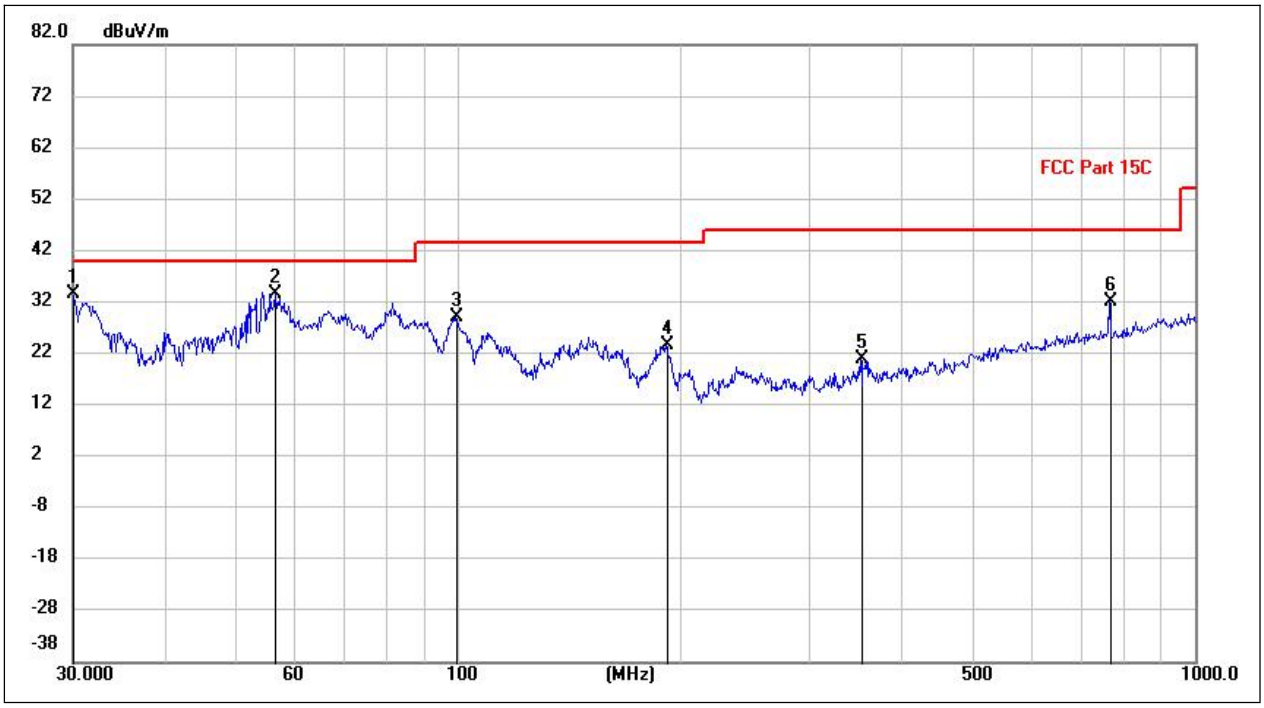

(8-DPSK _2480MHz, Antenna Horizontal, 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1015.500 | --- | 28.29 | 54.00 | 25.71 | H | 28.02 | PASS |
| 1018.852 | 40.28 | --- | 74.00 | 33.72 | H | 27.83 | PASS |
| 1281.827 | --- | 29.35 | 54.00 | 24.65 | H | 30.67 | PASS |
| 1288.888 | 41.39 | --- | 74.00 | 32.61 | H | 30.65 | PASS |
| 1516.453 | 44.20 | --- | 74.00 | 29.80 | H | 32.89 | PASS |
| 1523.132 | --- | 31.56 | 54.00 | 22.44 | H | 32.93 | PASS |
| 1797.971 | 47.17 | --- | 74.00 | 26.83 | H | 36.63 | PASS |
| 1797.971 | --- | 35.69 | 54.00 | 18.31 | H | 36.63 | PASS |
| 2078.561 | 48.94 | --- | 74.00 | 25.06 | H | 36.63 | PASS |
| 2099.215 | --- | 36.02 | 54.00 | 17.98 | H | 37.05 | PASS |
| 2600.731 | --- | 43.43 | 54.00 | 10.57 | H | 43.66 | PASS |
| 2603.590 | 55.55 | --- | 74.00 | 18.45 | H | 43.50 | PASS |



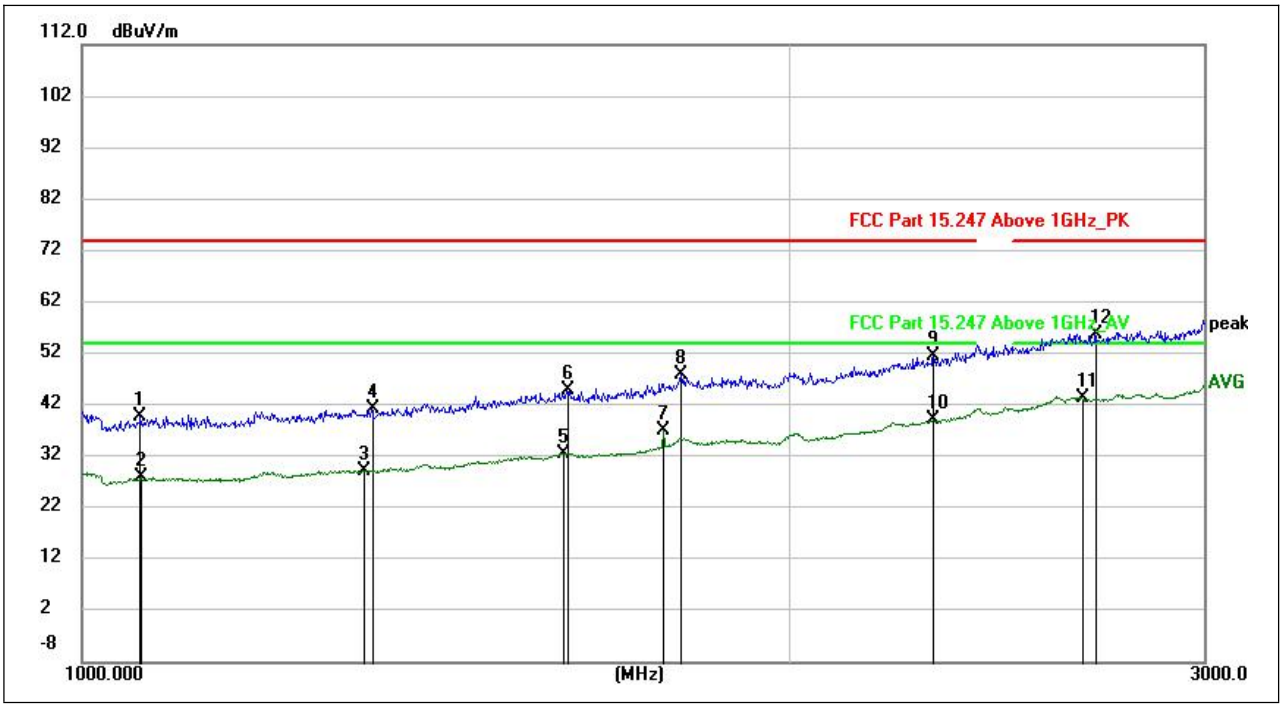

(8-DPSK _2480MHz, Antenna Horizontal, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3405.000 | 39.83 | --- | 74.00 | 34.17 | H | -5.97 | PASS |
| 3411.000 | --- | 30.63 | 54.00 | 23.37 | H | -5.93 | PASS |
| 5999.250 | --- | 33.83 | 54.00 | 20.17 | H | -2.89 | PASS |
| 6007.500 | 43.53 | --- | 74.00 | 30.47 | H | -2.76 | PASS |
| 7961.250 | --- | 35.17 | 54.00 | 18.83 | H | 1.24 | PASS |
| 7968.750 | 42.83 | --- | 74.00 | 31.17 | H | 1.08 | PASS |
| 10985.250 | 44.52 | --- | 74.00 | 29.48 | H | 3.34 | PASS |
| 11007.000 | --- | 35.76 | 54.00 | 18.24 | H | 3.45 | PASS |
| 14418.750 | 46.32 | --- | 74.00 | 27.68 | H | 9.28 | PASS |
| 14418.750 | --- | 39.14 | 54.00 | 14.86 | H | 9.28 | PASS |
| 17739.000 | 49.74 | --- | 74.00 | 24.26 | H | 15.12 | PASS |
| 17794.500 | --- | 41.29 | 54.00 | 12.71 | H | 14.64 | PASS |



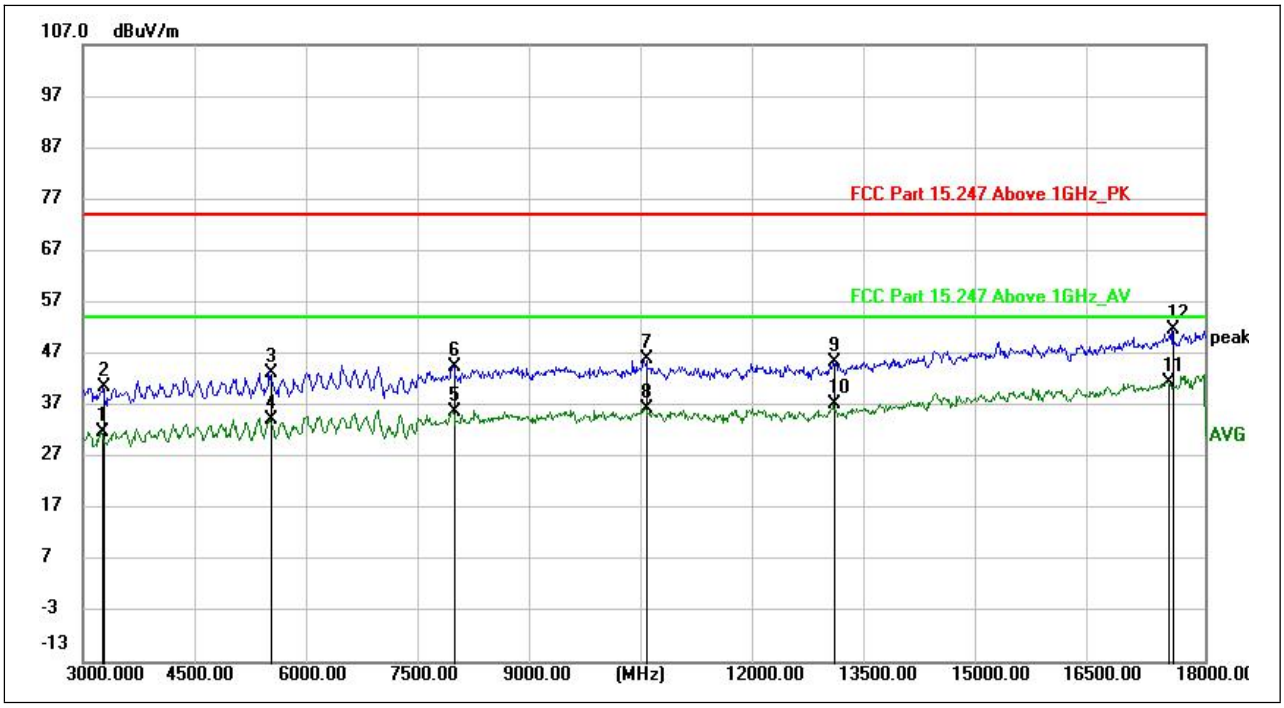

(8-DPSK _2480MHz, Antenna Vertical, 30MHz to 1GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|
| 30.0000 | 33.56 | 40.00 | 6.44 | V | 13.90 | PASS |
| 56.5731 | 33.74 | 40.00 | 6.26 | V | 14.69 | PASS |
| 99.2493 | 28.96 | 43.50 | 14.54 | V | 14.57 | PASS |
| 191.8123 | 23.58 | 43.50 | 19.92 | V | 13.42 | PASS |
| 352.2016 | 20.91 | 46.00 | 25.09 | V | 17.91 | PASS |
| 768.0745 | 31.97 | 46.00 | 14.03 | V | 26.18 | PASS |




(8-DPSK _2480MHz, Antenna Vertical , 1GHz to 3GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 1058.791 | 39.90 | --- | 74.00 | 34.10 | V | 28.73 | PASS |
| 1059.955 | --- | 27.96 | 54.00 | 26.04 | V | 28.73 | PASS |
| 1317.521 | --- | 29.36 | 54.00 | 24.64 | V | 30.78 | PASS |
| 1327.692 | 41.15 | --- | 74.00 | 32.85 | V | 30.76 | PASS |
| 1602.083 | --- | 32.67 | 54.00 | 21.33 | V | 34.16 | PASS |
| 1607.372 | 44.80 | --- | 74.00 | 29.20 | V | 33.98 | PASS |
| 1766.643 | --- | 37.12 | 54.00 | 16.88 | V | 35.02 | PASS |
| 1797.971 | 47.82 | --- | 74.00 | 26.18 | V | 36.63 | PASS |
| 2302.157 | 51.63 | --- | 74.00 | 22.37 | V | 39.73 | PASS |
| 2302.157 | --- | 39.21 | 54.00 | 14.79 | V | 39.73 | PASS |
| 2661.430 | --- | 43.33 | 54.00 | 10.67 | V | 43.18 | PASS |
| 2696.749 | 55.85 | --- | 74.00 | 18.15 | V | 43.08 | PASS |




(8-DPSK _2480MHz, Antenna Vertical, 3GHz to 18GHz)

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Pol | Corr. (dB/m) | Verdict |
|---|---|---|---|---|---|---|---|
| 3261.000 | --- | 31.81 | 54.00 | 22.19 | V | -5.87 | PASS |
| 3271.500 | 40.42 | --- | 74.00 | 33.58 | V | -5.79 | PASS |
| 5508.000 | 43.38 | --- | 74.00 | 30.62 | V | -1.81 | PASS |
| 5514.000 | --- | 34.04 | 54.00 | 19.96 | V | -1.89 | PASS |
| 7959.750 | --- | 35.59 | 54.00 | 18.41 | V | 1.43 | PASS |
| 7968.750 | 44.48 | --- | 74.00 | 29.52 | V | 1.25 | PASS |
| 10524.000 | 45.95 | --- | 74.00 | 28.05 | V | 3.26 | PASS |
| 10533.750 | --- | 36.25 | 54.00 | 17.75 | V | 3.22 | PASS |
| 13041.000 | 45.47 | --- | 74.00 | 28.53 | V | 6.27 | PASS |
| 13041.000 | --- | 37.06 | 54.00 | 16.94 | V | 6.27 | PASS |
| 17520.000 | --- | 41.52 | 54.00 | 12.48 | V | 14.77 | PASS |
| 17571.750 | 51.54 | --- | 74.00 | 22.46 | V | 13.40 | PASS |

# Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

| Test items | Uncertainty |
|---|---|
| Peak Output Power | ±2.22dB |
| Power spectral density (PSD) | ±2.22dB |
| Bandwidth | ±5% |
| Conducted Spurious Emission | ±2.77 dB |
| Restricted Frequency Bands | ±5% |
| Radiated Emission | ±3.1dB |
| Conducted Emission | ±1.8dB |

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

# Annex B Testing Laboratory Information

## 1. Identification of the Responsible Testing Laboratory

| | |
|---|---|
| **Laboratory Name:** | Kehu-Morlab Test Laboratory |
| **Laboratory Address:** | Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P.R. China |
| **Telephone:** | +86 592 5612050 |
| **Facsimile:** | +86 592 5612095 |

## 2. Identification of the Responsible Testing Location

| | |
|---|---|
| **Name:** | Kehu-Morlab Test Laboratory |
| **Address:** | Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P.R. China |

## 3. Accreditation Certificate

| | |
|---|---|
| **Accredited Testing Laboratory:** | The FCC designation number is CN1249.<br>( Kehu-Morlab Test Laboratory ) |

## 4. Test Equipments Utilized

### 4.1 Conducted Test Equipments

| No. | Equipment Name | Serial No. | Model No. | Manufacturer | Cal.Date | Cal.Due Date |
|---|---|---|---|---|---|---|
| 1 | MXA Signal Analyzer | MY53421845 | N9020A | Keysight | 2020.01.04 | 2021.01.03 |
| 2 | RF cable (30MHz-26.5GHz) | RF01 | N/A | Morlab | 2020.01.04 | 2021.01.03 |
| 3 | Coaxial cable | RF02 | N/A | Morlab | 2020.01.04 | 2021.01.03 |
| 4 | SMA connector | RF03 | N/A | Xingbo | 2020.01.04 | 2021.01.03 |
| **Software Version: MW 2.0.0.0** | | | | | | |

### 4.2 Conducted Emission Test Equipments

| No. | Equipment Name | Serial No. | Model No. | Manufacturer | Cal.Date | Cal.Due Date |
|---|---|---|---|---|---|---|
| 1 | EMI Receiver | 102174 | ESR3 | ESR3 | 2019.01.08 | 2020.01.07 |
| 2 | LISN | 101338 | ENV432 | ENV432 | 2019.01.14 | 2020.01.13 |
| 3 | Pulse Limiter (10dB) | 317 | VTSD 9561 F | VTSD 9561 F | 2019.01.14 | 2020.01.13 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4 | Coaxial cable(BNC) (30MHz-3GHz) | EMC01 | N/A | Morlab | 2019.01.14 | 2020.01.13 |

### 4.3 List of Software Used

| No. | Model | Version Number | Producer | Test Item |
|---|---|---|---|---|
| 1 | EMC32 | V10.00.00 | Rode&Schwarz | RE |
| 2 | EMC32 | V10.20.01 | Rode&Schwarz | CE |

### 4.4 Radiated Test Equipments

| RSE Test System | | | | | | |
|---|---|---|---|---|---|---|
| **No.** | **Equipment Name** | **Serial No.** | **Model No.** | **Manufacturer** | **Cal. Date** | **Cal.Due Date** |
| 1 | Anechoic Chamber | N/A | 9m*6m*6 m | ETS-Lindgren | 2017.07.21 | 2020.07.20 |
| 2 | Signal Analyzer | 101294 | FSV40 | R&S | 2019.01.04 | 2020.01.03 |
| 3 | Active Ring Antenna | FMZB 1513 #269 | FMZB 1513 | Schwarzbeck | 2019.01.12 | 2020.01.11 |
| 4 | Linear Log Periodic Broad Band Antenna | 949 | VULB 9163 | Schwarzbeck | 2018.09.25 | 2021.09.24 |
| 5 | Ultra-Wideband Horn Antenna | 102615 | HF907 | R&S | 2019.01.19 | 2020.01.18 |
| 6 | Steatite Antennas | 17868 | QSH-SL-1 8-26-S-20 | Seibersdorf | 2019.01.12 | 2020.01.11 |
| 7 | RF Switch and Control Platform | N/A | RSC | CDSI | N/A | N/A |
| 8 | Coaxial cable (N male) (9kHz -3GHz) | EMC02 | N/A | Morlab | 2019.01.04 | 2020.01.03 |
| 9 | Coaxial cable (N male) (9kHz -3GHz) | EMC03 | N/A | Morlab | 2019.01.04 | 2020.01.03 |
| 10 | Coaxial cable (N male) (1GHz-26.5GHz) | EMC04 | N/A | Morlab | 2019.01.04 | 2020.01.03 |
| 11 | Coaxial cable (N male) (1GHz-26.5GHz) | EMC05 | N/A | Morlab | 2019.01.04 | 2020.01.03 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | Pre-amplifier (1GHz-18GHz) | 8810011 | PAP-1G18 | CDSI | 2019.01.04 | 2020.01.03 |
| 13 | Pre-amplifier (18GHz-40GHz) | 17021-17024 | PAP-1840 | CDSI | 2019.01.29 | 2020.01.28 |
| 14 | Band stop Filter | EMC19 | BJF2400/2485-60 | CDSI | 2019.01.04 | 2020.01.03 |
| 15 | High Pass Filter | EMC22 | HFP-3.0/18G-60 | CDSI | 2019.01.04 | 2020.01.03 |

END OF REPORT